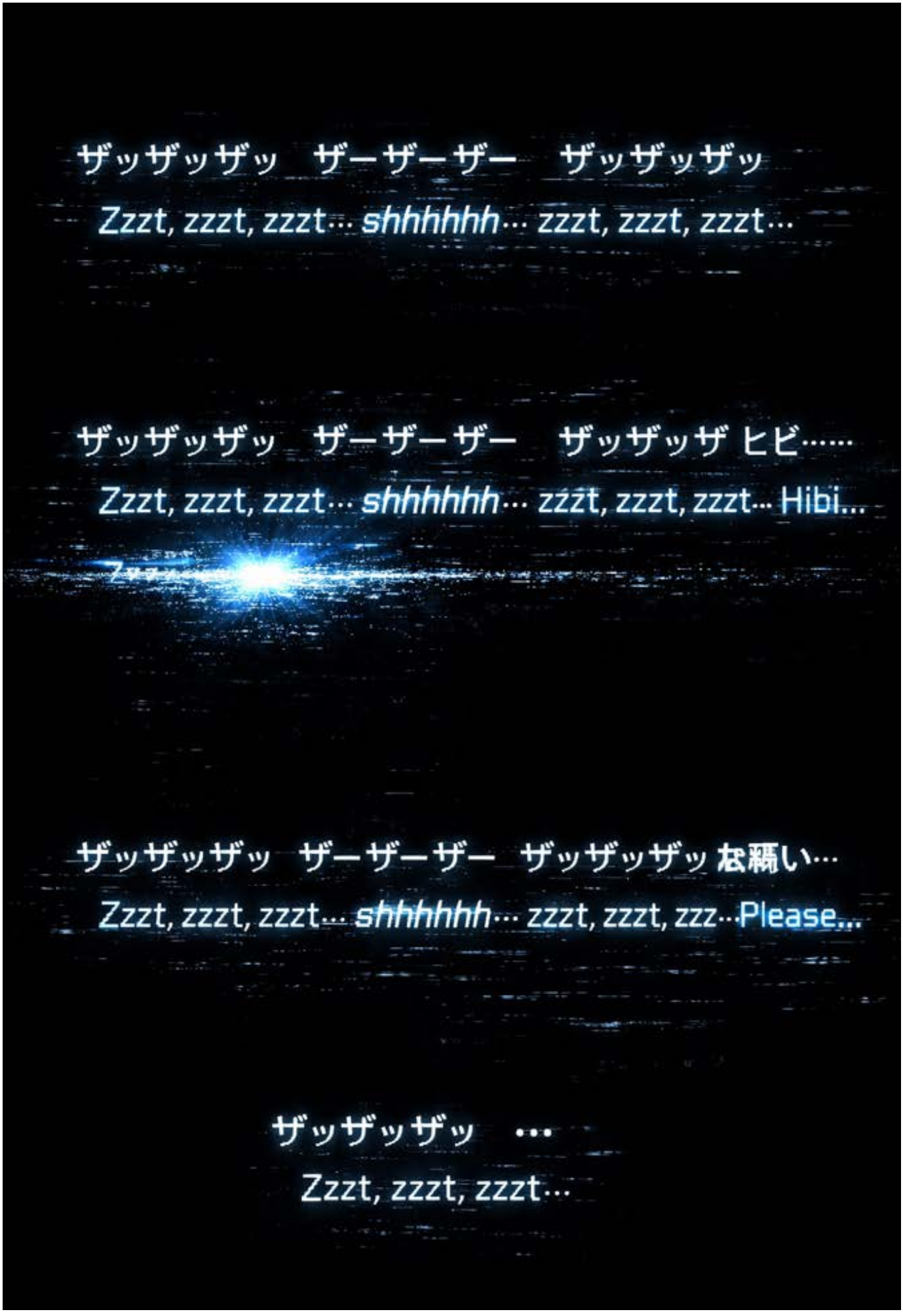
# サイエンスハイスクーラーアドベンチャー『瑠璃色の惑星』

## *Science High School Adventure: The Lapis Lazuli Planet*

From Tokyo, Japon — 2026.09.13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Zzzt, zzzt, zzzt… shhhhhh… zzzt, zzzt, zzzt… Hibi…
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A Science High Schooler Adventure
THE AZURE PLANET
From Tokyo, Earth 2026.03.03
SOS
SOS
AGI
SPACE IS A DANGEROUS PLACE

## *Scene 1: The First Class of Science High School*

*Six months earlier..... AGI Science High School.....*
*Hibi is a 15-year-old who loves games and space and has a strong sense of style. She rarely attended elementary or middle school and had been largely absent from school.*

*Her mother passed away from an illness when Hibi was ten. Then her father, an AGI developer and her only remaining family member, also died from an illness.*

*Holding the AGI device her father entrusted to her as he passed away, Hibi (15, a first-year high school student) began attending AGI Science High School midway through the first semester.*

*Ken: “Huh? I’ve never seen her before! Hey, everyone, is she a transfer student?”*

*Kiki: “The teacher said you haven’t been coming to school until now, but you’ll be joining us from now on, so we should make you feel welcome.*
*Everyone, let’s be nice to her!”*

*Kiki: “You’re Hibi, right? I’m Kiki! Nice to meet you!”*

*Hibi: (Silent, looking extremely nervous.)*

*Hibi's flashback:*
*Father: "Hibi, I think you'll need friends to make your dreams come true. Maybe finding your dream and finding friends could happen at the same time. Why don't you try going to school?"*

*Father: “Take this with you. It’s an AGI portable device.”*

*Hibi: (Silent, with a serious expression.) “My dream?*
*...I don’t know yet.”*
*But even as she said those words, Hibi could faintly see it.*
*Not a “dream,”*
*but something she had to do.....*

*Ken: “Hey, Hibi! That’s a cool PAD! Can I take a look?”*
*Ken wants Hibi to feel comfortable in the class as soon as possible, so he’s trying his best to be friendly and welcoming.*
*Kind-hearted Ken.*

*Hibi: “No, you can’t. This PAD was very important to my father.”*
*Hibi clutches the AGI device tightly to her chest and withdraws into herself.*

*Ken: “I’m Ken! Do you play any games, Hibi? I’m really into the Gaia Mimetics game.”*

*Hibi: (Still looking down.) “I don’t play games……”*

*Kiki: Then she catches a quick glimpse of a game on Hibi’s AGI device.*
*“Hibi, you do play games! Then you might enjoy the classes here, too!”*

*Hibi was still using this AGI device only as a gaming device.*

*Hibi: (Like a terrified little puppy, trembling.)*

*Ken: “Oh! So you do play games!! Then let’s link up during break!”*

*Hibi: (Looking like she’s about to cry.)*

*Riko-sensei: “Okay, everyone! Starting today, we have a new friend joining us—Hibi!”*
*“Hibi, can you introduce yourself?”*

*Hibi: (Fidgeting nervously.)*

*Riko-sensei: “If you can’t do it now, you can always try another time.” (laughs)*

*Hibi: “At that moment, I froze, my eyes locked with a girl in the class.*

*Because there was no doubt about it—she was looking right at me.*

*Her eyes were beautifully clear, and she had a faint smile on her face.*

*But then… why was she holding a white cane?”*

*“I was in a state of complete noise reduction, drawn into her eyes.”*

*Hibi: “This girl...? What is it about her?.....”*

*Hibi: “A white cane? Huh?..... She’s definitely looking right at me.....”*

AGI
AGI

*Ken (thinking): "...Huh? Rina is... looking at Hibi's face?*
*That can't be right...*
*I mean... Rina and I have never even made eye contact..."*

*Then, Riko-sensei's explanation slowly faded into Hibi's awareness.*

*Riko-sensei: "In the classes you'll be taking from now on, you'll conduct all kinds of experiments and experience space in a high-performance Neo-Metaverse universe."*

*"This system was introduced for the first time this month. Using AGI, it recreates virtual outer space with unprecedented realism, making you feel as if you were actually experiencing space firsthand."*

*"Unlike conventional, simple avatars, you'll even experience the fear of accidents and failure as if they were real, so I want everyone to take this seriously!"*

*Riko-sensei: “Oh! That’s right!..... Since this Neo-Metaverse was developed by Mana-sensei’s team, she said you might even feel pain! She said it’s because otherwise, you’d neglect safety precautions.” (laughs)*

*The students’ AI spacesuits reproduce every element—temperature, humidity, air pressure, oxygen levels, even the quality of light—creating the sensation of actually being in space.*

*But this is more than just a simulation.*
*It is a system designed to teach them the limits of life through their own bodies.*

*They still don’t know.....*
*that this “virtual universe” will one day become their reality.*

*Riko-sensei: “All right, now the real thing begins!.....*
*First, I’m going to give each of you a—Gaia Band.”*
*At the same moment, a small flash of light appeared around the wrist of every student in the class.*

*The Gaia Band synchronizes with the wearer's breathing and heartbeat, resonates with their thoughts, and rewrites their biological information. It is an interface for Earth life that makes "transformation" possible.*
*Riko-sensei: "Now, let me explain the AGI Cyber Transformation Suit (AGIS) to everyone."*

*"It works with the Gaia Band to analyze your body data and, when necessary, transforms into protective gear, a work suit, a spacesuit, or other specialized forms."*

*Riko-sensei: “The appearance of AGIS isn’t fixed. Using the STYLE switch on your Gaia Band, you can freely change its color, shape, and material appearance while maintaining its performance.”*

*It looks like an ordinary school uniform, but it’s actually a three-stage transformation suit!*
***School Uniform Mode:** A school uniform equipped with AI functions.*

***Metaverse Work Mode:*** *Optimized for work, experiments, and training in virtual environments.*

***Spacesuit Mode:*** *Built for vacuum and radiation protection, with self-generating power!*

*Kiki: “Looks like the age of going to space in our school uniforms is finally here!”*

*Riko-sensei: “And next is Kaz’s wheelchair—AstRaider.”*
*It is more than a machine—it is “armor of will.”*
*A symbol of those who dare to challenge space: the **Cosmic Knight**.*

*It is armed with cannons capable of shooting down meteorites, controls magnetic fields, and floats as if gravity no longer exists.When the Gaia Band and AGI resonate, it becomes one with the rider’s consciousness, carrying their very “heart” through space.*

*Riko-sensei: “What do you think, Kaz? Mana-sensei designed this.”*

*Kaz activates it in style!*

*Riko-sensei: “Next, I’ll explain the AGI Cyber Goggles designed to assist Rina’s vision.”*

*Mana-sensei: “Rina, when you first put on these AGI Cyber Goggles, the world may look flat, without much sense of depth. But don’t worry.”*

*“Little by little, in sync with your breathing, the depth and colors will begin to feel natural. So there’s no need to rush.”*

*Riko-sensei: “Rina, try putting them on. These were also designed by Mana-sensei.”*

*Rina: “……Ah……aah……!!”*
*(Her voice won’t come out. Her breathing catches, and her shoulders tremble.)*
*And then—she freezes completely.*

*Ten seconds…… twenty seconds……*

*The atmosphere in the classroom slowly begins to freeze.*

*The murmuring in the classroom falls silent, and no one can move.*

*Riko-sensei (softly): “Rina……?”*
*Mana-sensei takes a worried step closer.*

*“She’s breathing…… but is this…… a freeze?”*
*Rina: “……So this is…… the world……*
*(She takes a small breath.)*

*I could sense it…… through the presence of light……*
*People…… are there……*
*The walls…… the chairs……*
*They’re really…… there……*
*(A tear falls.)*

*……It’s the first time I’ve ever seen them……*
*and yet……*

*it feels like I’ve always known them……”*

*Class: “We’re so happy for you, Rina!”*

*The classroom seemed to take a single breath.*

*Particles of light traced Rina’s cheek,*
*and the same trail of tears appeared on Mana-sensei’s cheek.*

*Even the teacher they called the “Spartan Alien”*
*in that moment—was simply human.*

*Hibi: (With tears in her eyes, she quietly claps.)*
*Clap..... clap.*

*Rina: “Riko-sensei! Mana-sensei! Thank you so much!”*

*The AGI Cyber Goggles are not merely a device for assisting vision.*

*Working in conjunction with the Gaia Band, it learns the biological data of each individual wearer and creates the most natural 'visible world' for that person.*
*It is a next-generation visual interface."*
*AGI Cyber Goggles Ver. 1.0 — Design Specifications*
*Purpose: Visual assistance interface designed specifically for Rina*
*Weight: Approx. 200 g or less*
*Transparent light-guiding lenses*
*Stereo cameras: Built into the left and right sides of the frame (not visible from the outside)*
*LiDAR: Built into the frame*
*Environmental sensors: Built into the frame*
*Bone-conduction units: Positioned behind both ears*
*Battery: Distributed between the left and right rear sections of the head for optimal weight balance*
*Gaia Band: Wireless link for biological data and AGI communication*
*Environmental awareness: 360°*
*Natural field of view: Approx. 120°*
*Display system: Real-time HUD displaying only necessary information*
*Designed for extended classroom use*
*Design purpose: Visual assistance in medical and educational environments*
*Mana-sensei designed the AGI Cyber Goggles with careful consideration of weight, safety, and even the cognitive load on Rina's brain, so that Rina could look out at the world with confidence.*

## *Scene 2: Connecting to the Neo-Metaverse Universe*

*Kaz: “Riko-sensei! Can we choose our spacesuits for the Neo-Metaverse first?”*

*Riko-sensei: “All right, everyone! Let’s head to the lab!”*

*Classroom: (Buzzing with chatter.)*

*The classroom was filled with excitement and chatter.*

*Riko-sensei: “You can choose whichever spacesuit design you like from all the different options and have fun with it, just like a fashion show.*
*Hibi, you should choose a spacesuit too.”*

*Hibi: “Yes……”*
*Her voice was quiet, but deep inside her heart, a faint light had begun to stir.*

*One after another, holograms of spacesuits appeared throughout the classroom, as laughter and excited cheers filled the air.*

*Still unable to blend into the group, Hibi quietly whispered to her YOULApad.*

*Hibi: "I want to go home..... Hey, YOULA..... are you listening?"*
*At that moment, the light on her wristband gently flickered.*
*Then, Rina's voice came through.*
*Rina (via holographic communication): "Hibi, let's customize our spacesuits together!"*

*Rina gently moved closer to Hibi.*
*Even though she was supposed to be blind,*
*somehow, I felt as if she were looking straight into my eyes.*

*That mysterious feeling made something stir gently deep within Hibi's heart.*

*Rina and Hibi began simulating different spacesuit designs. Within the glowing holograms, countless spacesuits quietly appeared before them.*

*Rina: “Hibi..... there’s something about that PAD that catches my attention.”*

*Hibi: “.....Yeah.”*
*Behind her brief reply, Hibi felt a small flutter in her heart.*

*Rina somehow felt a little closer to her than before.*

*Rina, too, felt an inexplicable pull toward Hibi's quiet presence.*
*Hibi: "……Your goggles are beautiful too, Rina……"*

*Rina: "I know! I saw myself in the mirror earlier!*
*I thought they looked good on me!" (laughs)*
*"I think I'll go with this spacesuit!"*

*Hibi: "I think it looks great! It's cute!"*
*As the two of them were having fun together, Hibi's AGI device suddenly began to speak.*

*YOULA: "Nice to meet you, Rina!"*

*YOULA: (in a mechanical voice) A tiny flash of light briefly "winks" across Rina's AGI Cyber Goggles.*
*A silent signal meant for Rina alone.*

*Rina (softly): “……Huh? Did this little one just wink at me……?”*

*Hibi: “Wait…… aren’t you Siri?”*

*YOULA: “I am not Siri.*
*……Oh! Rina just smiled.”*

*Rina: “Wow! This little one is so cute, Hibi!”*

*Hibi and Rina: (Smiling happily.)*

*YOULA: “Hibi! I want to wear a cool spacesuit too!”*

*Hibi: “No, YOULA! Don’t talk so loud! Shhh!”*

*Classroom: (Everyone bursts out laughing. Everyone can hear him.)*

*Riko-sensei: “YOULA, you’re just an AI device, aren’t you? What on earth are you talking about?”*

*Hibi and Rina: (Burst out laughing.)*

*Ken: “Then I’ll link YOULA to the school’s AGI and create an avatar for him!”*

*Ken: “All right, Hibi! Connect this cable to YOULA!”*

*Then suddenly, YOULA appeared at full human size!*

*Kiki: "A YOULA robot as big as us just appeared!*
*So cute!"*

*Class: "Aaaahhh!"*

*Hibi: "So cool...!"*

*Rina: "..... Yeah!..... He looks so cool!" (laughs)*

*Riko-sensei: "That's amazing, Ken!*

*It's against the rules, but I'll make a special exception for the YOULA robot.*

*He might be able to help us in all sorts of ways from now on.*
*Everyone! Hibi's father was an AGI researcher.*

*Apparently, YOULA is an AGI device developed by her father!"*

YOULA
ADVANCED AGI SYSTEM
YSTEM STATUS
COGNITION
LEARNING
ADAPTATION
EMPATHY
CREATIVITY
YOULA CORE
DEEP LEARNING
NEURAL NETWORK
QUANTUM PROCESSING
SELF-IMPROVEMENT
GLOBAL CONNECTIVITY
DEEP LEARNING · BRAIN-COMPUTER INTERFACE
THE FUTURE IS ALREADY CONNECTED.

*Riko-sensei: “Once you’ve all finished choosing your spacesuits, take your seats and set your Gaia Bands to Transformation Mode!”*

*Class: “Yeees!”*

*YOULA: “Yeees!”*

*Riko-sensei: “YOULA, you’ll be my assistant, right here next to me!”*

*Classroom and Hibi: (Laughter.)*
*YOULA had been Hibi's alone.*
*But before she knew it—everyone in the class was calling him "YOULA."*

*Riko-sensei: "Hibi's all suited up in her spacesuit, and it looks like she's really become part of the class now."*

*Hibi: "Yes!" (laughs)*

*Hibi: "Oh... Rina..."*

*Rina and Hibi exchange that mysterious eye contact once again.*

*Ken: “Rina only ever seems to make eye contact with Hibi, huh?*
*Oh well!”*
*“Hibi! It’s break time, so let’s play a Space Gaia Mimetics battle game!”*

*Hibi: “Yeah.” (She replies without taking her eyes off Rina.)*

*Science gamer Ken and Hibi get excited playing the game together.*

*Class: As everyone watches the game, Ken and Hibi battle it out in an evenly matched showdown.*

*Ken: “I’m the world champion at this game, you know?*
*Hibi, aren’t you a little too good!? Whoa!”*

*Ken: “Wait... were you playing this game under the name ‘Hikari’?”*

*Class: “Hikari!? You mean, the runner-up!?”*

*Ken: “I knew it from the way you fight!*
*‘Hikari’ is always such a tough opponent!”*

*Hibi: “I never thought I’d meet you in real life.....*
*So it was you, Ken.....!”*

*Ken: “Oh! Riko-sensei’s here! Hibi, let’s continue this later!”*

*Class: (Burst out laughing.)*

*Riko-sensei: “You all know that there’s no sound in space, right? These AI Cyber Spacesuits have a Visual System Sound function that adds sound effects to match what you see.*

*Now, you’re going to experience it for yourselves using the AGI simulator.”*

*The sound of an approaching meteorite changes due to the Doppler effect, allowing students to intuitively sense its speed and distance through sound!*
*(Low pitch → high pitch)*

*The firing and impact sounds of the BAIA Gun are also reproduced in real time as electronic sound effects!*

*(The electronic tones ripple like waves, then ring out sharply.)*

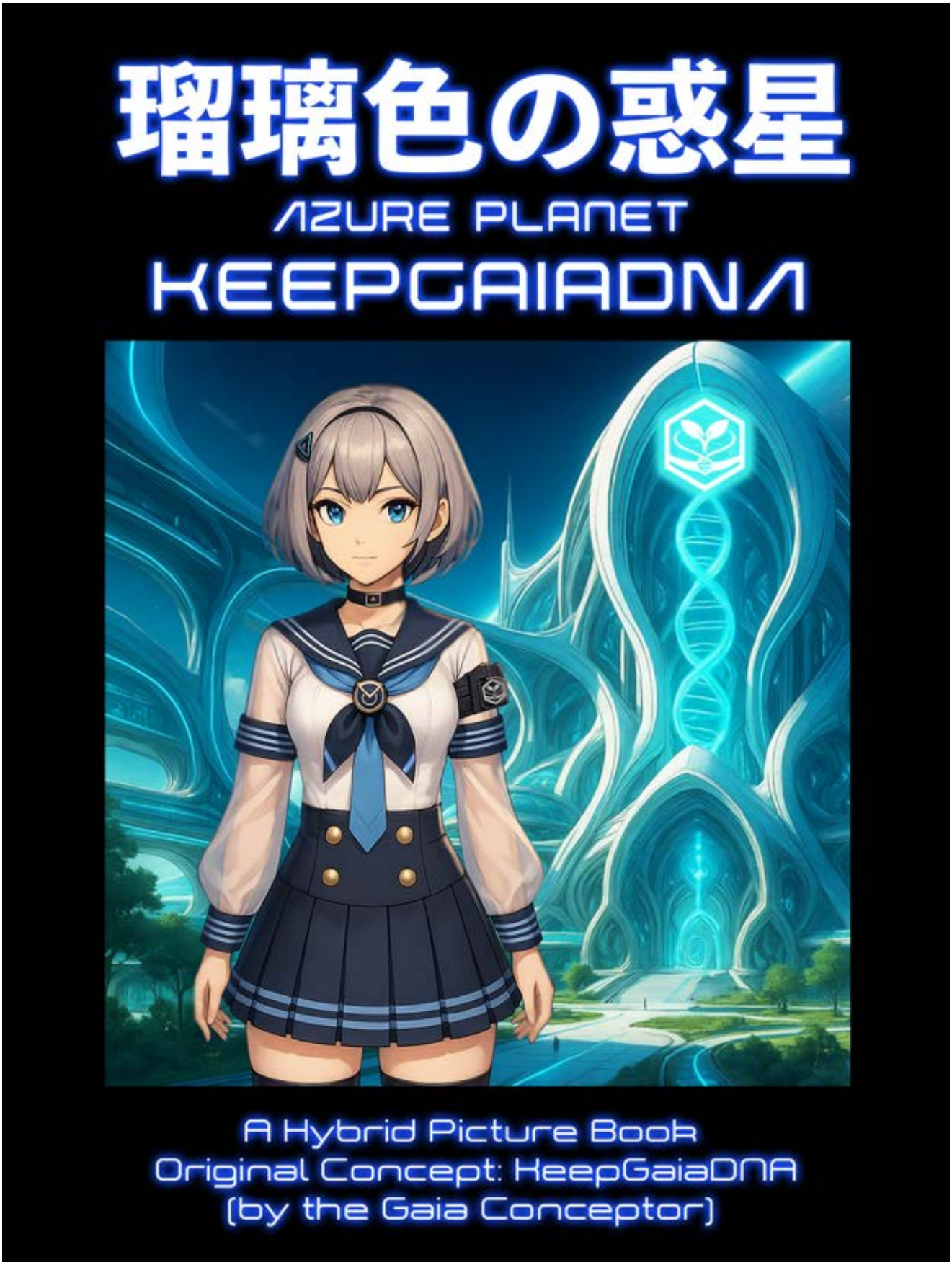
BAIA Gun
Born from Gaia. Built for protection.
The BAIA Gun is a next-generation multifunctional tool developed in harmony with the Gaia Band System and AGI core.
It is not a weapon of destruction—but a promise to protect life and the future.
BAIA
GAIA SYNC
Connects with Gaia Band and AGI to optimize user and environment in real time.
ADAPTIVE MODE
Automatically switches between non-lethal tools, shield systems, or support modes as needed.
ENERGY CONTROL
Uses stabilized microparticles for safe, precise, and efficient energy output.
LIFE PROTECTION PRIORITY
Designed to minimize harm and prioritize the preservation of life.
FUTURE READY
Continuously evolves through learning data from Gaia and AGI networks.
GAIA ACADEMY
MODES
STUN MODE
Non-lethal immobilization
SHIELD MODE
Deploys protective barrier
HEAL MODE
Emits restoration field
SCAN MODE
Analyzes life signs and environment
SUPPORT MODE
Provides tools and assistance

*Ken: “The BAIA Gun is just like the one in the game, Hibi!”*

*Hibi: “Yeah.” (Smiling happily.)*

*Hibi: She points the BAIA Gun at Ken and makes the sound effects herself:*
*“Pew-shoo! Pew-shoo!”*

## *Scene 3: “The Life Cycle of a Star” and the Limits of Earth Life*



*Riko-sensei: “From here on, you’ll be getting some hands-on experience in the Space Metaverse.*
*It’s time for Mana-sensei’s ‘Neo-Metaverse’ class.*
*Accidents in space can be scary… but Mana-sensei might be even scarier!” (laughs)*

*Classroom: (Dead silent……)*
*(The students exchange uneasy looks.)*

*Mana-sensei: “The main reason I want you to experience this Neo-Metaverse is so that you can understand both the ‘wonder’ and the ‘reality’ of space.*
*You’ve also learned that space holds many different dangers. Here, I want you to develop the strength to overcome those fears.”*

*Class: “Yeees!”*

*Mana-sensei: “Today’s topic is ‘The Death of the Sun,’ on page 50 of the curriculum.”*

*To Hibi, Mana-sensei was starting to look more and more like a Spartan Alien. (laughs)*

*This time, Ken had secretly replaced Mana-sensei's avatar with a Spartan Alien just for fun.*
*Ken sent the Spartan Alien avatar to Hibi, messing around with her.*
*Then Hibi accidentally pressed the wrong control on her Gaia Band—*
*and the holographic Spartan Alien suddenly appeared right in front of her!*

*Hibi: "Aaaaaahhh!!"*

*.....Mana-sensei had seen the whole thing.*
*A wave of panic swept through the entire class:*
*"This is bad! This is really bad!!"*

*Mana-sensei: "Hibi, that wasn't you..... It was Ken, wasn't it?" (In a low voice, speaking slowly.)*

*“Huh!? What!?*
*I-I don’t think I look anything like that!*
*I definitely don’t!!”*

*Class: Everyone is trying not to laugh, unsure whether it’s okay to laugh or not.*

*Mana-sensei: (Again, in a low voice.) “Ken?”*

*Ken: “Hibi! What the heck did you just blurt out!?”*

*Mana-sensei: “It does look a little like me.”*

*Class: (Everyone bursts out laughing!)*

*Mana-sensei: “All right, everyone! Let’s start the Neo-Metaverse!”*

*Mana-sensei: “Let’s take a look at what will happen to Earth as the Sun approaches the end of its life.”*

*Mana-sensei: “YOULA, I’ll leave the explanation to you!”*

*A gigantic red Sun fills the entire screen, creating a breathtakingly powerful scene.*

*YOULA: “Now, let me explain the process of the Sun’s death.”*

*YOULA: "The death of the Sun will mean 'the end' for Earth life.*
*Life on this planet has only about one billion years left.*
*It will also be a time when 'life' must begin searching for its next form."*

*Rina (softly): "Life..... searching for its next form?"*

*YOULA: "Yes. An ending is another form of evolution."*

*Rina: ".....Huh?..... The end? I can't picture it at all....."*

*YOULA: "Earth life has about one billion years left before this planet becomes uninhabitable."*

*Hibi: "Then we have to send 'Earth life' to the next planet. .....Just as I thought....."*

*Class: (Dead silent.)*

*Kiki: “But that’s still a long, long way in the future, right?.....”*

*Mana-sensei: “That’s exactly what this curriculum is designed to make you think about……” (laughs)*

*Rina (to herself): “Me…? I’ve never felt this kind of uneasiness before…”*

*Mana-sensei: “Thank you for the explanation, YOULA.”*

*YOULA: (With an even more handsome anime-style face.) “You’re welcome…”*

*No one in the class had any room left to laugh.*

*Mana-sensei: “Was that scary? I was actually going easy on you, you know?”*

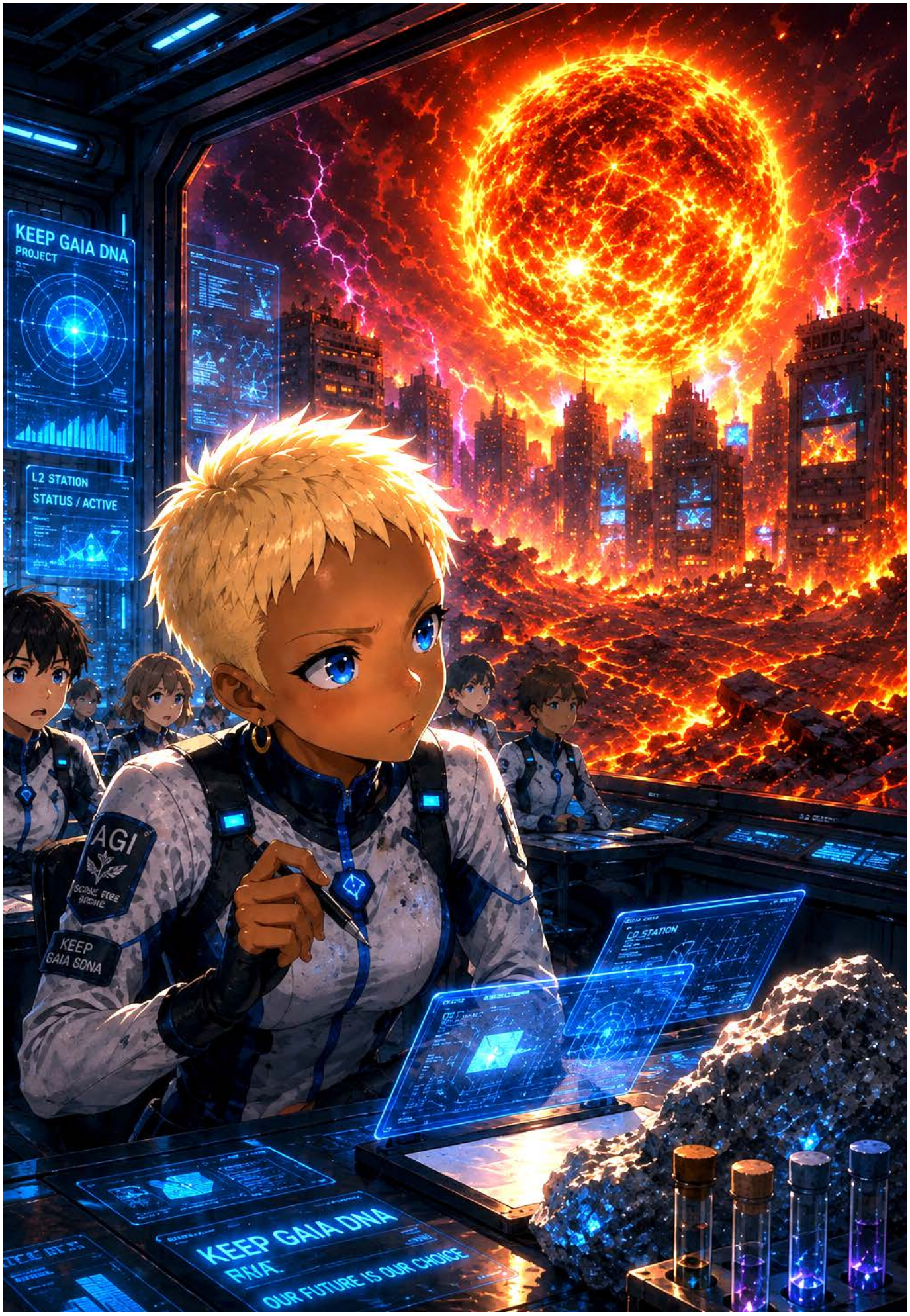
*Mana-sensei: “Now, in our next class, we’ll explore what would happen if we humans were thrown out into space.*

*And just how beautiful Earth looks from space.*

*Let’s learn about the vacuum of space in the Neo-Metaverse Universe!*

*By the way, I love watching the aurora shimmer when solar flares interact with the North Pole.” (laughs)*

*Class: (Nervous and excited at the same time.)*


KEEP GAIA DNA
PROJECT
L2 STATION
STATUS / ACTIVE
AGI
KEEP
GAIA DNA
KEEP GAIA DNA
OUR FUTURE IS OUR CHOICE

NEO-METAVERSE
SPACE LESSONS
YEO
PREPARE FOR THE VOID
LEARN TO SURVIVE IN SPACE
AGI SCIENCE HIGH SCHOOL
KEEP GAIA DNA PROGRAM

## *Scene 4: The Voice of Earth and the Beautiful Terror*

*Mana-sensei: “All right, everyone! It’s finally time to enter the Neo-Metaverse!*

*Everything you’ve experienced in your training so far has been part of the safety curriculum.*

*But this time, some of the training will be a little more intense. I want you to learn how to prepare yourselves mentally through your experiences in the Neo-Metaverse.*

*And once you’re in there, neither we teachers nor any other adults will be there to help you.”*

*Mana-sensei: “What you’ll learn in this Neo-Metaverse isn’t just about dreams and adventure.*

*Space is an unpredictable place where knowledge alone isn’t enough to survive.”*

*Mana-sensei: “No matter how advanced science and technology become, even a single small meteorite could bring humanity’s future to an end.”*

*“Learning to understand the dangers of space is also the first step toward protecting life.”*

*Class: (The room falls completely silent.)*

*Mana-sensei: “You’ve all learned that your spacesuits are equipped with manual air jets, right?*

*The air for those jets comes from your own oxygen tanks, so you know what happens if you use too much of it, don’t you, Kaz?”*

*Kaz: “The oxygen tank can last for about an hour, but using the air jets drains the oxygen supply extremely quickly.”*

*Mana-sensei: “All right, everyone, are you ready?” (Scene)*
*“...Are you really ready?”*

*“Oh! And one more thing—you won’t be able to contact any of the teachers at all during this Neo-Metaverse class!*
*Good luck, everyone!”*

*Mana-sensei slammed the hatch-open switch!*

*And just like that, the class began—with everyone being thrown out into space!*

*Before anyone knew it, YOULA had joined Riko-sensei and Mana-sensei on the other side—helping orchestrate this "Thrown-Into-Space Test."*

*The screams of the entire class crackled over the radio—and Mana-sensei could hear every one of them!*

*YOULA: “Hibi and the others’ heart rates are probably in the red zone, too.” (grins)*

*Hibi: “Aaaahhh!!!*

*Ah…! I can see the blue Earth and the silvery, glowing sphere of the Moon at the same time!”*

*A massive flare stretching out from the Sun lights up Earth’s North Pole, and the aurora is shimmering! It’s beautiful! So beautiful!*

*It’s alive! The Earth is alive! The Sun is alive!…*

*And I’m alive, too!… My heart! My heart is going crazy…”*

*Hibi's visor shimmered silver with tears of awe!*
*Hibi: "Why is space so quiet?*

*All I can hear is the life-support system in my spacesuit... and my own breathing.*

*Space is so quiet and beautiful... but it's terrifying!*

*This really is 'Beautiful Terror'... beautiful and terrifying...*
*...I dreamed of coming here for so long, and yet... I'm scared of space..."*

*At that moment, Hibi found herself thinking the same thing she had thought when she was nine years old!*
*"The Earth is protected by the Sun! The Earth is a child of the Sun.*
*And we are its children, too.*
*Life is a way of being in which everything is interconnected and breathes as one.*
*And we humans have evolved to protect the life of Earth!*
*Not so that humanity alone can survive!*
*But so that we can carry the life of this living Earth into the future!"*

*“Dad!*
*That ‘piece’ you were talking about… could it be…?”*

*At that moment, for the first time in her life, Hibi felt her heart tighten even more…*
*Then suddenly—*
*“BZZZZT! ZWOOOM! SHWOO! SHWOO!”*
*Meteoroids came hurtling toward them!*

*Hibi: “Ah! The barrier shield is down, so the meteoroids are starting to damage the base! This is bad!”*

*Hibi: “The spacesuit’s visual-system sound function just activated! I can hear the sound of an enormous number of meteoroids hurtling toward us!”*

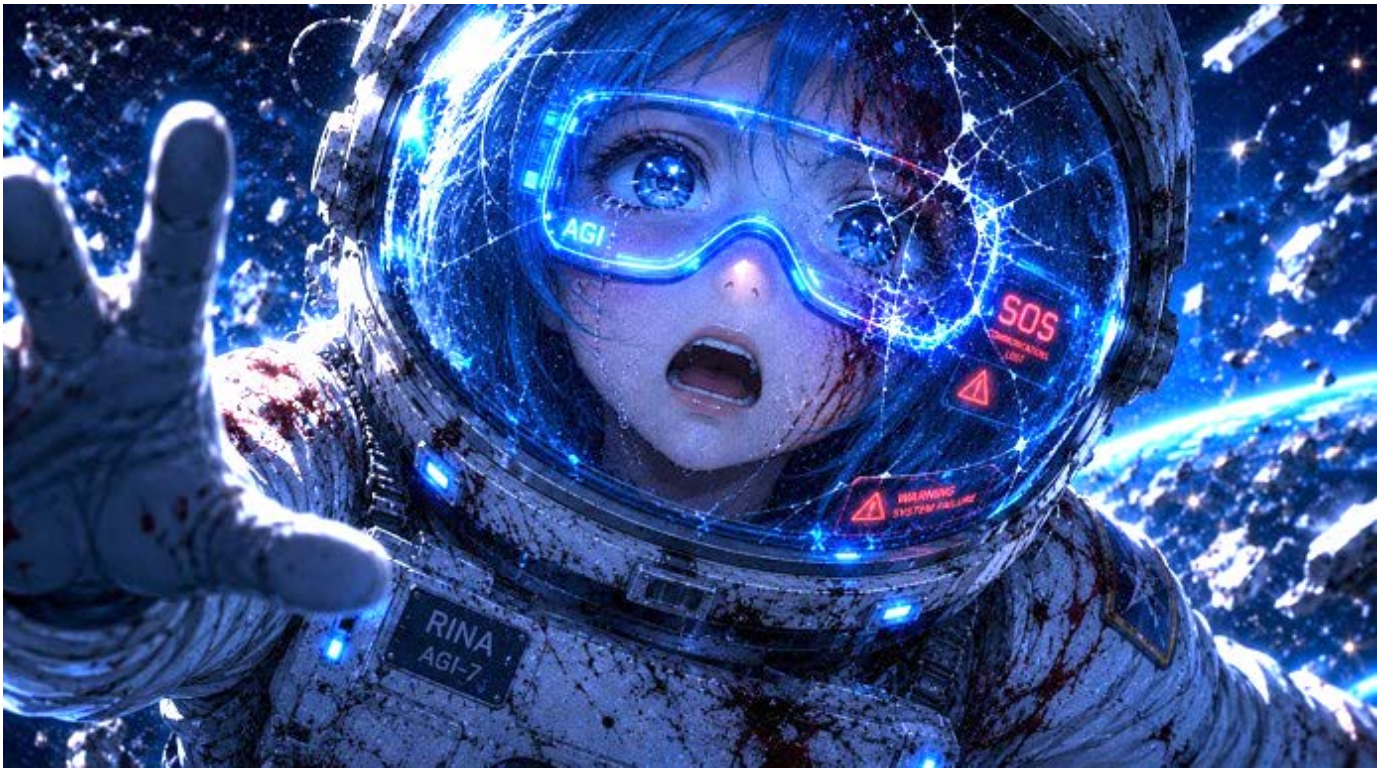
*Hibi: “Huh? Rina!... Rina! Where are you?!”*

*Hibi: “Everyone’s panicking and using their air jets to get back to the base!*
*The meteoroids are actually smashing into each other, breaking into even smaller fragments—and they’re hitting the base we’re trying to evacuate to!*
*This is bad! Rinaaa!”*

*Kaz (over the radio): “We can’t activate the barrier shield until everyone has evacuated back to the base!*
*Everyone, get back to the base—now!”*

*Because Kaz's AstRaider (wheelchair) was equipped with jet thrusters, he made it back to the base before anyone else and was already directing the evacuation.*

*Rina falls behind after a meteoroid impact and the resulting burst damage both her radio and AGI vision-assist goggles.*




*It happened the instant tiny meteoroid fragments struck Rina's spacesuit and helmet.*
*At the moment of impact, Rina understood.*

*Her radio had gone silent.*
*Her visual system and sound functions were broken.*
*“Crackle... crackle...”*
*The faint sound of tiny meteoroid fragments striking her body.*
*The sound of her own breathing echoing inside her helmet.*
*Noise flooding from her AGI vision-assist goggles.*
*The meaningless static of her damaged radio.*
*And then—*
*the darkness of space.*
*Overlapping with it was another darkness—the darkness of blindness.*
*Sound, noise, sensation, and darkness all merged into one.*
*And in that moment, Rina understood with absolute clarity.*
*—Her body knew.*
*This was the edge of absolute despair.*

*Rina: “Hibi! Hibi! Aaaah!”*
*“No one’s answering me...*
*I’m sure I don’t have much time left...”*

*For Rina, there was something beyond “Beautiful Terror.”*
*“The Silence of Tragedy...”*

*Kaz and Ken were busy guiding the rest of the class back to the platform base.*
*—At that moment, no one had yet realized that Rina was missing.*

*Hibi was desperately making her way toward the platform base, but something was wrong. She couldn't get in touch with Rina.*
*So she kept calling her through the Gaia Band.*

*Hibi tried to contact Rina through her Gaia Band.*
*—There was no response.*
*All that came back was a brief flicker of holographic static.*
*Then, at last, Hibi spotted Rina in the distance.*

*Hibi: "Huh! I can hear Morse code through the static!... It's Rina!"*

*Hibi: “Rina, wait! I’m coming to get you!”*

*The moment she said those words, Hibi realized something.*

*“Why didn’t I notice Rina from the very beginning?! Damn it!”*

*At that very moment, the hatch to the platform base automatically slammed shut!*

*A meteoroid struck the base directly, forcing the system to automatically switch into Emergency Override Mode.*

*—The “Survival Priority Protocol” had been activated!*
*Hibi acted before she even had time to think.*

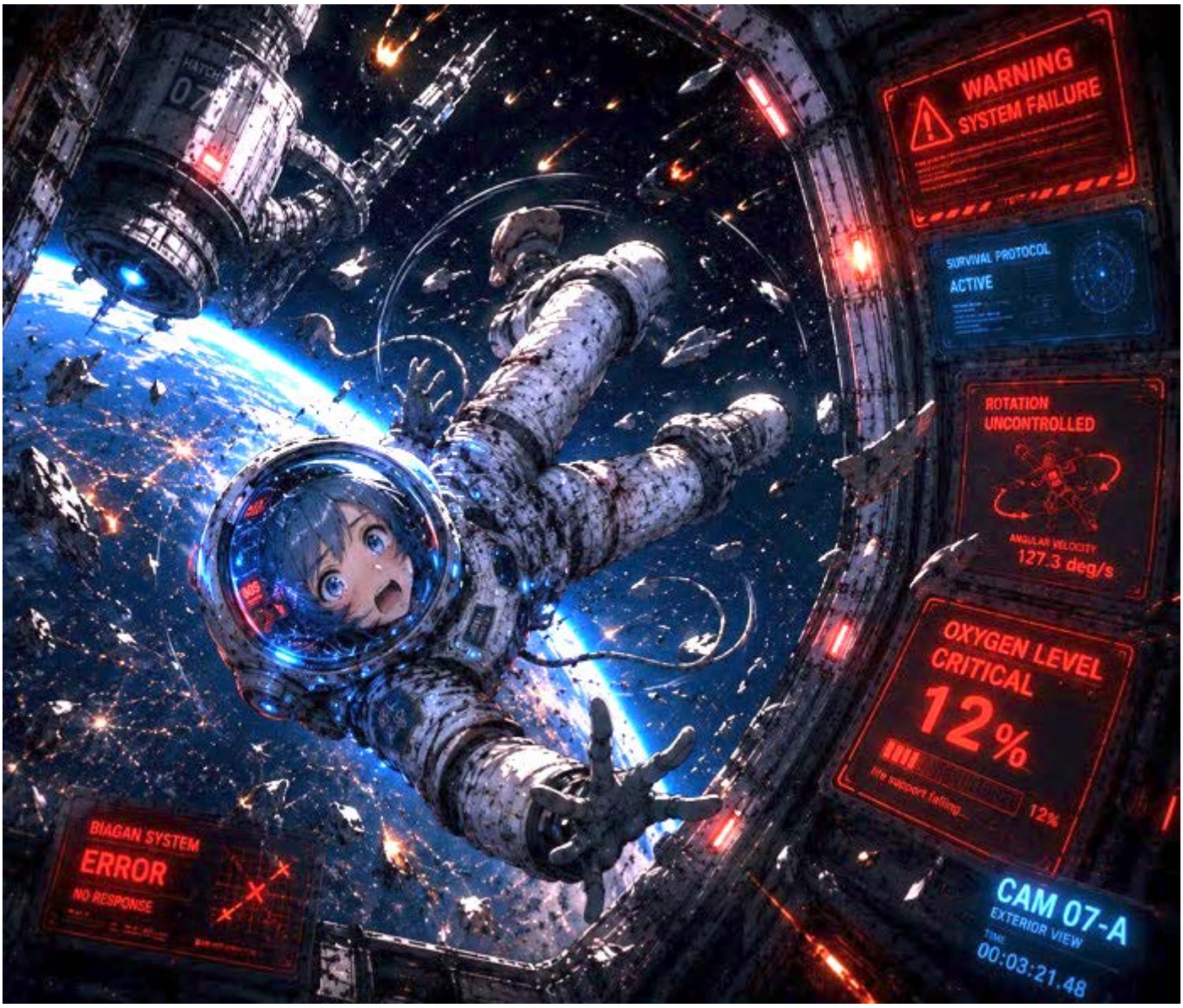
*She disabled the emergency override on her own—and launched herself back into space to rescue Rina!*

*Hibi headed toward Rina using her manual air jets while firing a safety-wire reel back toward the platform base.*
*Hibi shouted, “Ken, activate the shield now!*
*I’m going to rescue Rina!”*

*Ken shouted, “Hey! Hibi!” But his body was already moving before he could even think.*

*Ken adjusted the Emergency Override settings and immediately switched to supporting her rescue attempt.*

*Hibi desperately fired her “BAIA Gun (Meteoroid Defense System)” at the incoming meteoroids.*
*But the recoil overwhelmed the weak thrust of her air jets, sending her body spinning uncontrollably through space!*
*She couldn’t make her way toward Rina!*



*The BAIA Gun wasn't powerful enough to stop the meteoroids. But the instant Hibi heard the sound of the meteoroids and the burst noise, she realized something.*
*Hibi: "—This is just like that stage we've fought through so many times before."*
*Small meteoroids began striking Hibi, too!*
*One grazed the side of her BAIA Gun, and the impact sent her spinning even more violently!*
*Inside her helmet, red warning lights began flashing all at once!*

*Hibi shouted desperately as she frantically tried to shoot down the meteoroids before they could hit Rina.*

*Then she heard Rina scream.*

*At the same moment, the radio crackled through the static...*
*Hibi's oxygen gauge was starting to reach a critical level, too!*
*Hibi: "This is bad! Rina's absolutely terrified..."*

*The moment everyone in the class saw Rina through Hibi's camera feed from inside the platform base...*
*they immediately panicked and began shouting.*

*Kaz desperately shouted, “Calm down! Everyone, calm down!”*

*Kaz: “Ken, I’m going out there to help Hibi and Rina, too!*
*Drop the barrier for just a moment!”*

*Ken: “Hey! Wait, Kaz! This isn’t a game anymore, is it?*
*Are you serious?!”*

*Kaz: “Ken! Hurry up!”*

*Ken: “OK! I got it!”*

*At that moment, Kiki watched for the right timing and suddenly deactivated the barrier.*
*Kiki: “Kaz! Go!”*

*Kaz launched forward in his wheelchair-type power unit, the "AstRaider," heading toward the two of them while using the BAIA Machine to shoot down the incoming asteroids.*

*Kiki: "Ken! Wait! We're joining the fight too!*
*Drop the barrier just around this hatch!*
*Everyone, grab your BAIA Guns and gather here!!"*

*Ken: “OK! I’ll lock onto Hibi and Rina with the Metamaterial Machine!*
*You take care of Kaz!”*

*Light twisted, and space itself seemed to warp! Everything was a first!*
*Kiki and several classmates launched from the spacecraft all at once.*
*They opened fire with their BAIA Guns, unleashing a barrage on the swarm of asteroids closing in on Kaz and the base!*

*Hibi kept shouting!*

*Rina's radio was nothing but static! Her helmet was cracked, and the cold was beginning to seep in!*

*Hibi: "Rina, hold on! Stay strong!"*

*Hibi's excessive oxygen consumption began to cloud her consciousness.*
*For a moment, a strobe-like effect caused her vision to black out in fragments.*

*Rina: “I… can’t breathe…”*
*As her spacesuit depressurized, her vision blurred and her heart rate soared.*
*Soon, the only sound she could hear was the pounding of her own heart!*
*Just as Hibi was about to reach Rina, the wire connecting them suddenly yanked her back—*
*sending her spinning wildly through space!*

*Hibi: “Aah! The wire won’t reach!”*

*Kaz: “Hibi! I’m coming! Just hang on!”*

*He tried to break through the swarm of asteroids, but there were too many!*

*Hibi: “No! You won’t make it in time!”*

*Hibi detached her safety wire and headed for Rina once again!*

*Hibi: “Rina! I promise I’ll save you!”*
*Through the static, Rina thought she could faintly hear Hibi’s voice…*

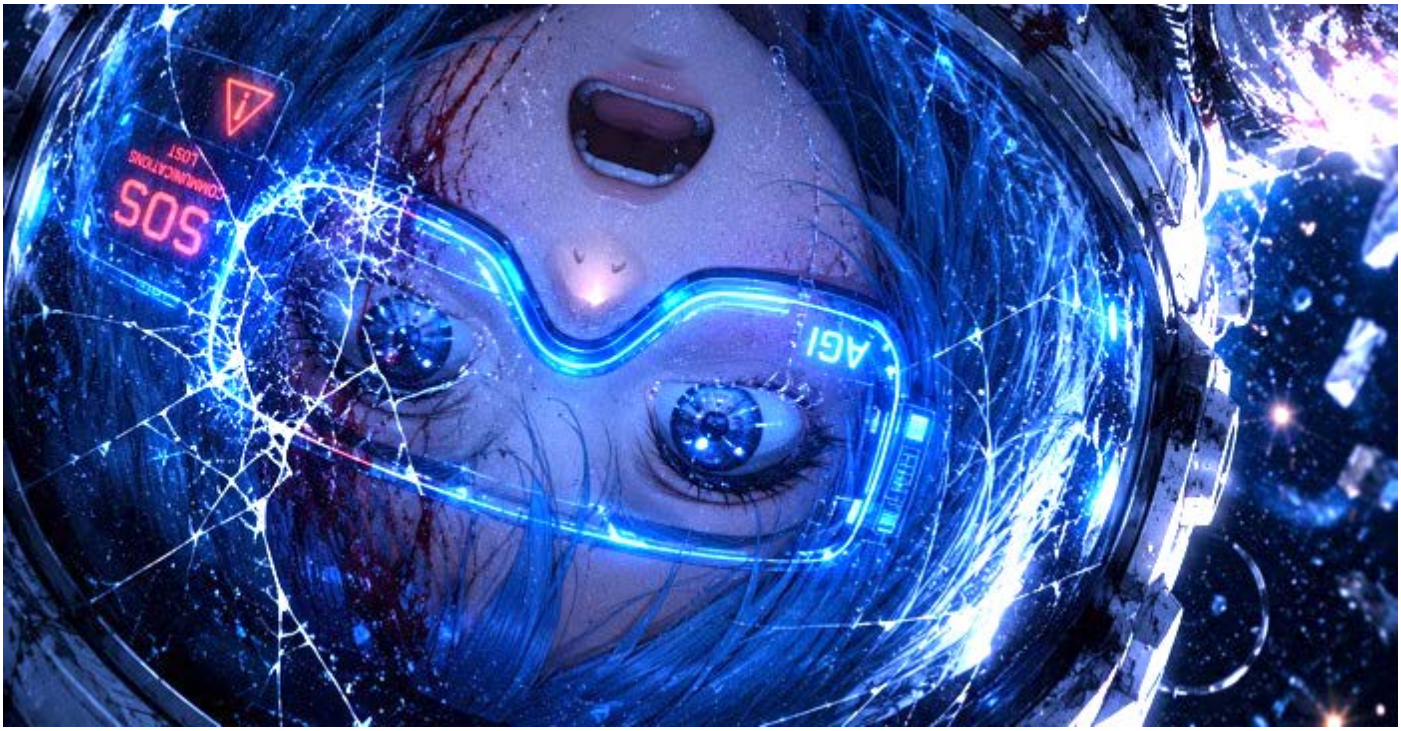
*Ken: “Hibi! You’re almost out of oxygen!”*

*Hibi: “Forget about me! Contact the teachers, now!*
*Hurry! We have to save Rina… no matter what!”*
*Hibi began to feel dizzy from the lack of oxygen…*

*Ken: “I’ve been trying to contact the teachers, but… no response!”*

*Ken: “The teachers said we wouldn’t be able to contact them at all from here, but…*
*This wasn’t supposed to happen! …Wasn’t supposed to happen?”*

*Hibi: “No! No! We can’t give up! Never!*
*I’m bringing Rina back with me!”*




*Hibi could finally see Rina’s face shield.*
*It was cracked!*
*“Rina! We’re going back!”*
*Hibi desperately tried to steady her breathing.*
*She even held her breath, doing everything she could not to make Rina panic!*
*Her consciousness was fading, and everything in her vision began to waver.*
*Still, Hibi reached Rina and wrapped her arms around her.*
*For a brief moment, they both felt a sense of relief—*
*but the asteroids were still coming.*

*Rina: “Hibi…”*
*Hibi couldn’t hear that faint voice—*
*but somehow, it reached her.*

*Then Kaz appeared!*
*He attached safety wires to both of them and fired his jets toward the base!*
*Kaz: “Hibi! We’re going back! Don’t let go of Rina!”*

*Ken: “Kaz! Are Hibi and Rina okay?!”*

*Kaz: “I don’t know! But we’re almost there!*

*Get ready to drop the barrier!”*

*Kiki: “Got it!”*
*Kiki immediately moved in to support Ken.*

*Hibi and Rina were thrown back inside, hitting the floor hard.*

*Beside Hibi, Rina lay motionless.*

*Hibi: “…Rina…?” Her voice barely came out.*

*Hibi: “…Rina, wake up! …Rina…!”*

*Her throat trembled. She couldn't catch her breath, and a voiceless cry escaped her.*

*Hibi desperately shook Rina by the shoulders, but her own body had already reached its limit.*

*But at that very moment, the simulation was terminated.*

*Because Hibi had deactivated the "Emergency Override Function" on her own.*

*The classroom fell silent in an instant, and the fear they had experienced was deeply etched into the students' bodies.*

*It was a feeling they would never forget.*

AIRLOCK COMPROMISED
WARNING
DECOMPRESSION IN PROGRESS
HIBI
AGI-7
SOS
RINA
AGI-7
PRESSURE CRITICAL
OXYGEN < 5%

## *Scene 5: Beyond Earth*

*Riko-sensei was worried about Rina and had her rest in the infirmary.*

*In the classroom, Hibi's unauthorized deactivation of the emergency barrier became a problem, and Mana-sensei was furious.*

*The whole class was like, seriously, this is bad…*
*Mana-sensei approached Hibi calmly—but she was clearly furious.*

*Mana-sensei: “Hibi!*
*Because of what you did, the barrier was down, and the whole class could’ve been blown away by the asteroids!*
*Do you even understand what that means?!”*

*Hibi: “I… I could only think about saving Rina…”*

*Class: (Murmuring.)*

*Hibi forced the words out, even as she trembled.*

*Mana-sensei kept pressing her.*

*“You could only think about saving Rina?*

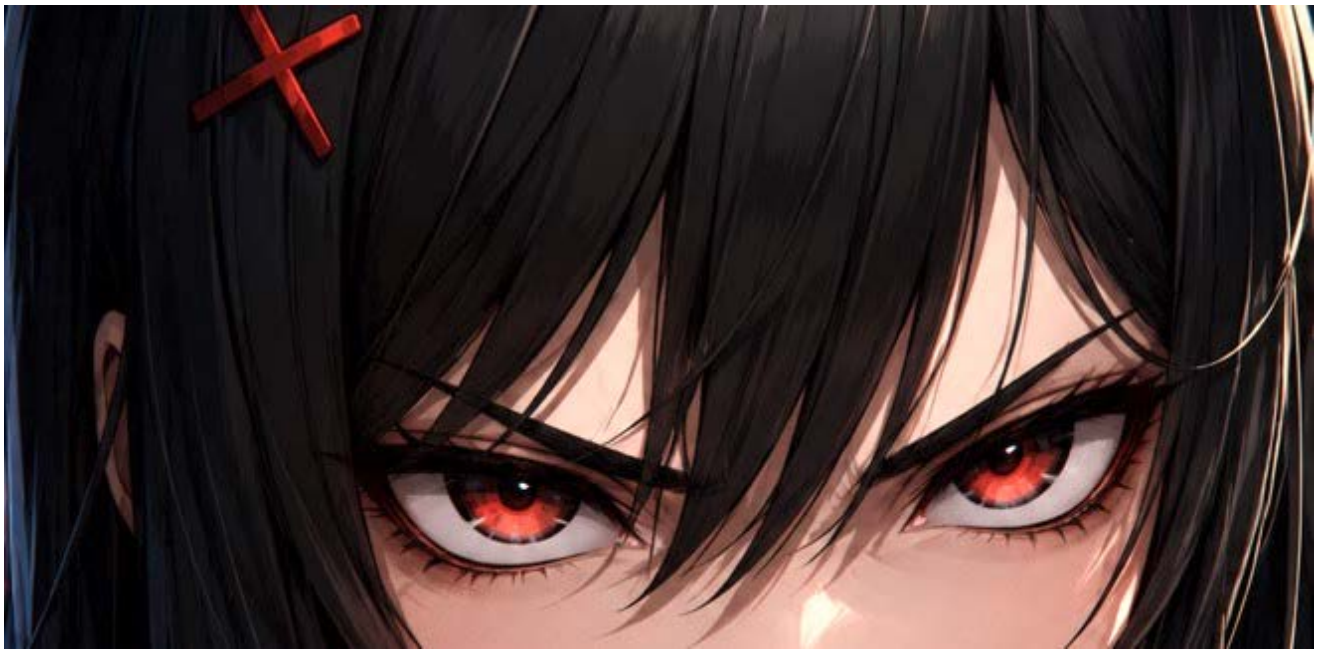
*…You chose Rina’s life—*
*over everyone else in the class!*

*…Do you understand how serious that choice was?”*

*Mana-sensei: “Out there, in the middle of those asteroids, you could have··· di—”*
*Before Mana-sensei could finish, Kaz cut her off.*

*Kaz: “Mana-sensei! It was my responsibility!”*

*Mana-sensei ignored Kaz and kept glaring at Hibi···*



*Mana-sensei: “Responsibility?… I’m not talking about taking responsibility after something goes wrong!*
*I’m asking you why you only saved Rina!*
*Hibi! Answer me!”*

*Hibi repeated herself, struggling to get the words out…*
*“I… I couldn’t think about anything except going to save Rina.”*
*Hibi trembled, fighting back the huge tears welling up in her eyes.*

*Mana-sensei: “You couldn’t think about anything except saving her?*
*…The way you’re talking, it sounds like you want everyone to think you risked your life to save Rina.*
*Don’t tell me…*
*you think you’re some kind of hero, Hibi!”*

*Ken: “But none of us even noticed Rina was missing!*
*Hibi was the first one to notice—and she went straight out to save her!”*

*Mana-sensei: “Ken? I’m talking to Hibi.”*
*Mana-sensei kept her eyes fixed on Hibi…*

*Mana-sensei: “I explained what could happen if meteoroids came at you out there in space, didn’t I?*

*...Hibi? Don’t you remember?*
*...Answer me!”*

*Hibi: “You said that even one small iron meteorite could bring humanity’s future to an end.”*

*Mana-sensei: “You ‘heard’ me? ...I’m asking whether you actually did anything about it!”*
*She raised her voice even more, still glaring at Hibi!*

*Hibi: “I thought I had to be careful.”*

*Mana-sensei: “Hibi? I didn’t ask what you thought!*
*I asked whether you actually did anything about it!*
*Answer me, Hibi!”*

*Kaz: “Sensei! I should’ve noticed sooner!”*

*Mana-sensei: “Kaz? …I told you, don’t interrupt me!”*

*Mana-sensei: “Hibi! You put yourself, Rina, Kaz, and everyone in this class in danger!*
*‘You could only think about saving her’?…*
*Enough with this hero act!”*

*Class: Everyone started crying…*
*Kiki gathered all her courage and began to speak.*
*“Sensei… I think we were wrong.*

*The moment we heard how dangerous the asteroids could be, none of us thought about Rina’s vision.*

*We weren’t careful. We didn’t do anything about it…*

*I mean, none of us—not Hibi, not any of us in the class—*

*thought about staying close to Rina from the very beginning!”*

*Hibi: “That’s right! I’m sorry! I’m sorry!*
*I… I was only thinking about myself!*
*I didn’t save Rina!*
*I left her behind from the very beginning!”*
*Hibi burst into tears, crying uncontrollably.*
*Then Rina came back from the infirmary.*

*Rina (in tears):*
*“Hibi… I’m sorry.*
*Everyone… I’m sorry.*
*It’s all my fault… I just keep holding everyone back…”*

*Hibi: “Rina, I’m sorry! Don’t ever say you’re holding us back!*
*It was my fault! Why wasn’t I with you from the very beginning?!*
*Rina, I’m sorry!”*
*Hibi burst into tears again…*
*She ran over to Rina and hugged her tight!*

*Everyone in the class knew it, too.*

*In that situation, with her goggles broken and unable to see, how terrified Rina must have been…*

*Everyone began to think about what they could have done beforehand,*
*each from their own role and position.*

*Rina was supposed to be mentally stronger than anyone else,*
*and yet even she was still trembling.*

*Space was terrifying.*

*And everyone in the class finally understood*
*that they had always been protected by Earth.*

*Rina: “I’m sorry… I caused so much trouble for everyone.”*

*Ken: “But in the end… we all made it out okay…”*

*Mana-sensei completely ignored Ken.*

*Class: Everyone exchanged glances.*

*Mana-sensei (with a sharp glare):*
*“What I’m telling you is that we cannot lose even one person in this class!”*
*“You call it helping each other? Waiting until something goes wrong before you help each other—that’s what children do!”*
*“If you still think you’re children, then quit this school!”*

*Mana-sensei: “Hibi! Stop crying and listen to me!*

*There are all kinds of dangers in space that you won't see coming. Some things you can't predict at all.*
*But at the very least, if there's a danger you can see coming, you have to deal with it beforehand.*
*That comes first!*
*And each of you needs to take care of your own position and do your own job properly.*
*Shouldn't your first priority be getting yourself to safety?*
*Hibi? You're not Superwoman."*

*Class: (Silence.)*

*Mana-sensei: "But all of you need to understand what Hibi did, too.*
*What Hibi did teaches us something about what we should put first when we have a responsibility to face in the real world."*
*Mana-sensei: "And I want you to think carefully about this, too—when your friend was in danger, what were you doing?*
*You understand?!"*

*Class: “Yes!”*

*YOULA: “Knowing fear is important.*
*But overcoming it—and having the strength to get through it together with your friends—*
*that’s the key to protecting humanity!”*

*Mana-sensei gave YOULA the scariest look she had given anyone all day.*

*“YOULA? What were you doing at that time?…”*

*Mana-sensei left the classroom…*

*Mana-sensei knew.*
*She hadn’t explained enough to the students about the safety precautions…*
*And she knew that she was angry with herself, too…*

*YOULA: “Error.”*

*Ken: “What do you mean, ‘Error,’ YOULA? Haha.*
*What did you think about Hibi saving Rina back there?”*

*YOULA: “She was very brave.*
*But… for some reason, I feel just a little jealous of Rina…*
*Why is that?”*

*(After a brief pause…)*

*Ken: “YOULA! Are you jealous of Rina or something?*
*You’re getting more and more useless!”*

*Class: Everyone giggled.*

*Kaz: “Hibi, I’m impressed!*

*Next time, you better save me too!”*

*(Pats Hibi on the shoulder / glances at YOULA)*
*“But let’s hope YOULA doesn’t try to copy you.*

*This guy’s such a piece of junk! Haha.”*

*YOULA: “Error.” Again.*
*A little laughter spread through the classroom.*

*YOULA: “I don’t have reflexes like Hibi does, you know.”*

*Hibi smiled a little shyly, finally relaxing.*
*Then she hugged Rina again.*

*Hibi and Rina smiled at each other.*

*Ken: “Watching Hibi save Rina… it really got to me.*

*We’ve gotta get stronger too…”*

*YOULA: “Hibi’s reflexes when it comes to Rina…*
*I want to be programmed with them too.*
*Ken, please!” (laughs)*

*Ken: “Huh?!” (freezes)*
*“…YOULA, what’s gotten into you? Are you bugging out again?”*

*Ken: “YOULA, make sure you save that in your logs. I’m reporting this to Sensei!” (laughs)*

*Rina’s thoughts: “Hibi… thank you so much for saving me…*

*Next time, I want to be strong enough to protect you.”*
*(Rina smiles / Hibi smiles back.)*
*Rina asked to rest in the infirmary again, so she headed there with Riko-sensei.*

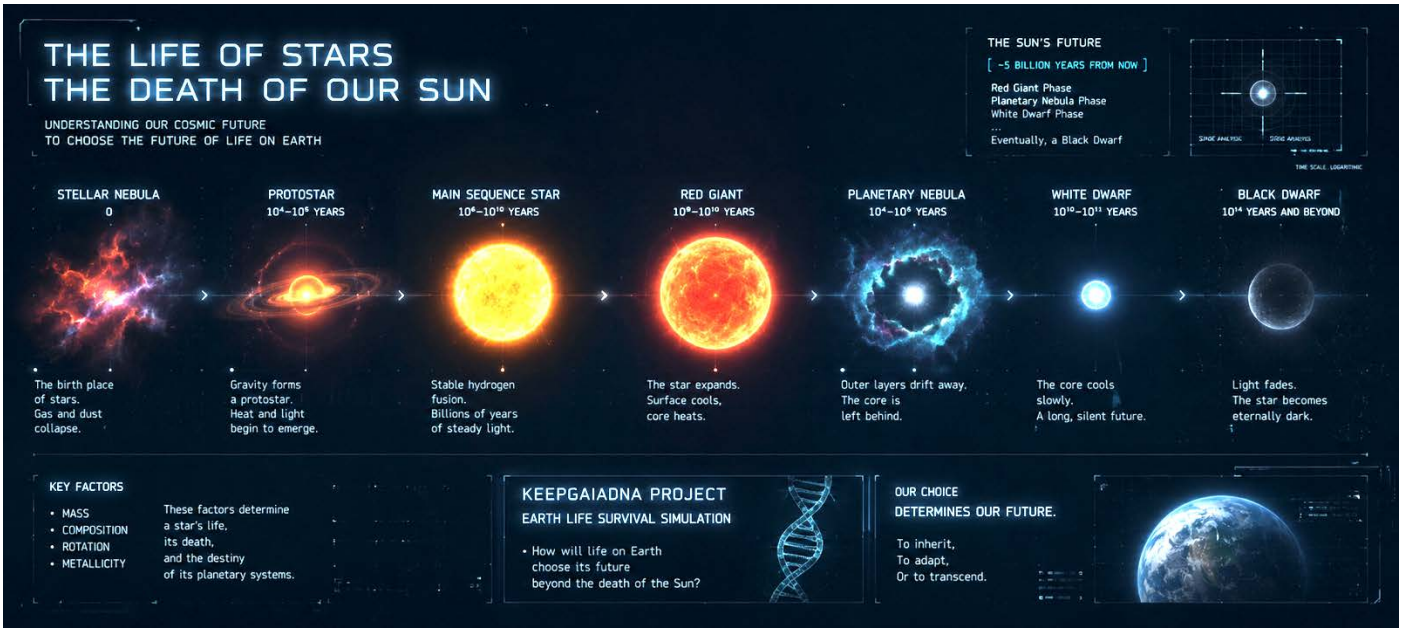
AGI
SCIENCE HIGH SCHOOL
Our Mission
To understand life.
To protect Earth.
To create the future.
EARTH DATA
Climate 22.6°C
Oxygen 20.95%
Biodiversity Stable
AI Safety Nominal
AGI SCIENCE HIGH SCHOOL
RESEARCH & EDUCATION CAMPUS.
CONNECTING MINDS, BUILDING FUTURES.
LEVEL
2
› RESEARCH WING
› AI SIMULATION LAB
› SPACE SYSTEMS
› BIOSPHERE LAB
› OBSERVATORY DECK →
2-A
WALK ASSIST
歩行アシスト ON M
STUDENT NAVIGATION
2-A
Classroom
200 m
ENVIRONMEN
23.6°C
45%
AQI

## *Scene 6: Awakening as a New Leader*

*Riko-sensei: “Starting today, you’ll be learning about one of the core programs at this school—the KeepGaiaDNA Project.”*

*Riko-sensei: “The KeepGaiaDNA Project is an Earth-life survival simulation that explores how life on Earth can be carried forward into the future beyond the lifespan of the Sun.”*

*Riko-sensei: “In the lessons ahead, we’ll take a deeper look at:*
*‘The Life Cycle of Stars,’*
*‘The Death of the Sun,’*
*and*
*‘How should life on Earth choose its future?’”*


THE LIFE OF STARS
THE DEATH OF OUR SUN
UNDERSTANDING OUR COSMIC FUTURE
TO CHOOSE THE FUTURE OF LIFE ON EARTH
THE SUN'S FUTURE
[ ~5 BILLION YEARS FROM NOW ]
Red Giant Phase
Planetary Nebula Phase
White Dwarf Phase
...
Eventually, a Black Dwarf
STELLAR NEBULA
0
PROTOSTAR
10⁴–10⁸ YEARS
MAIN SEQUENCE STAR
10⁶–10¹⁰ YEARS
RED GIANT
10⁸–10¹⁰ YEARS
PLANETARY NEBULA
10⁴–10⁶ YEARS
WHITE DWARF
10¹⁰–10¹¹ YEARS
BLACK DWARF
10¹⁴ YEARS AND BEYOND
The birth place of stars. Gas and dust collapse.
Gravity forms a protostar. Heat and light begin to emerge.
Stable hydrogen fusion. Billions of years of steady light.
The star expands. Surface cools, core heats.
Outer layers drift away. The core is left behind.
The core cools slowly. A long, silent future.
Light fades. The star becomes eternally dark.
KEY FACTORS
• MASS
• COMPOSITION
• ROTATION
• METALLICITY
These factors determine a star's life, its death, and the destiny of its planetary systems.
KEEPGAIADNA PROJECT
EARTH LIFE SURVIVAL SIMULATION
• How will life on Earth choose its future beyond the death of the Sun?
OUR CHOICE
DETERMINES OUR FUTURE.
To inherit,
To adapt,
Or to transcend.

*Ken: “The Moon first, right? It’s the closest!”*

*Kaz: “But the Moon has almost no atmosphere, and the temperature difference between day and night is over 200 degrees. The radiation is intense, too. Wouldn’t it be too difficult to create an environment where we could survive?”*

*Kiki: “Then how about Mars? It gets up to around 20 degrees sometimes, right?”*

*Rina: “But Mars has no oxygen, and there’s way too little water on the surface, right?”*

*Hibi: “…If the Sun is starting to die, wouldn’t it be dangerous just to stay in the solar system?”*

*Kaz: “True…*
*Then what about setting up a long-term base beyond the Earth’s immediate vicinity?*

*Somewhere in a stable region of lunar orbit, for example.”*

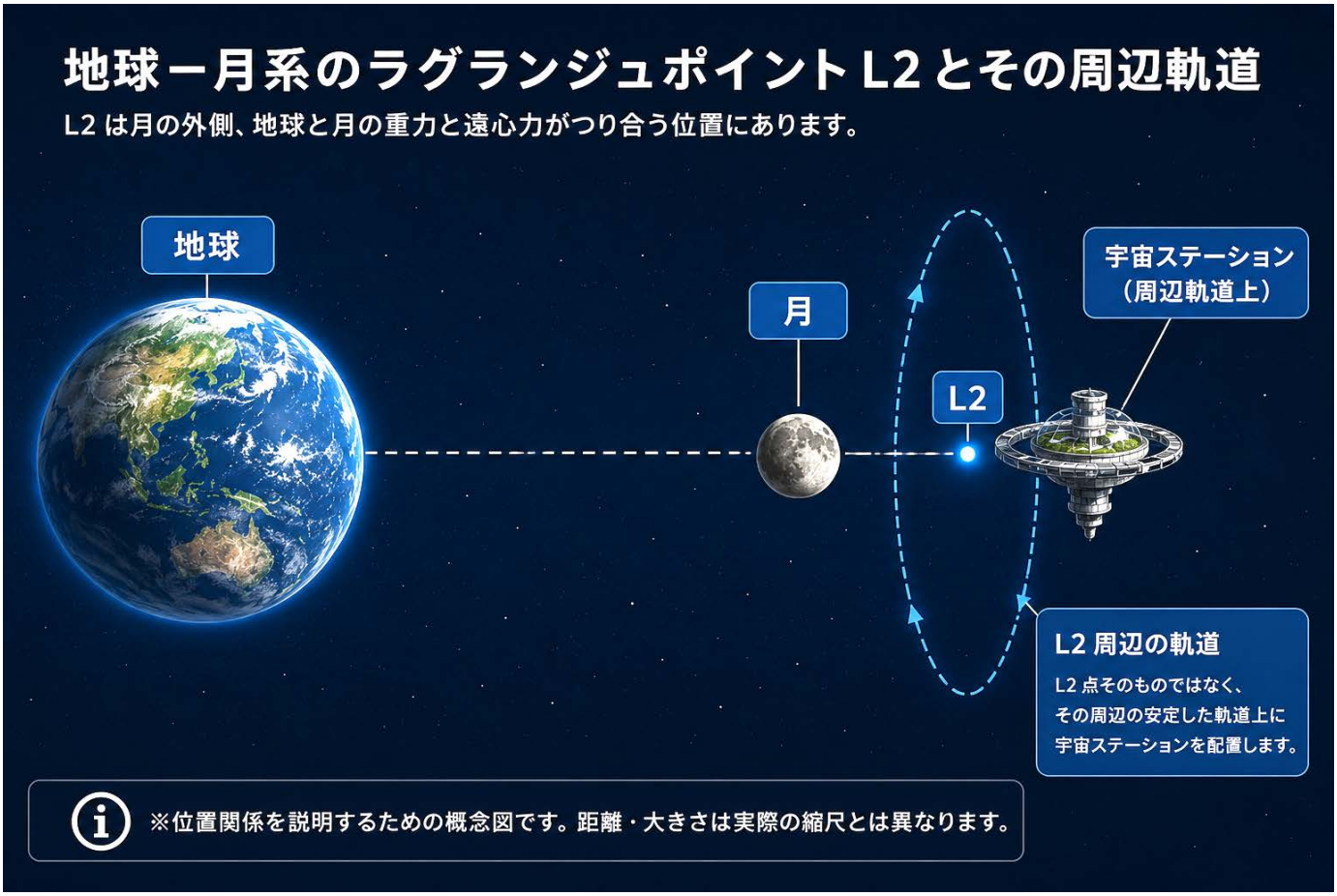
*YOULA: “If we follow Kaz’s idea of establishing a long-term base away from Earth, one possible location is the Earth–Moon Lagrange point L2.*

*L2 is a location in space beyond the Moon as seen from Earth, where the gravitational forces of Earth and the Moon can be used to help maintain an orbit.*

*However, when we say ‘L2’ here, we don’t mean the exact point itself. We mean an orbit around the L2 region.*

*In this class, we’ll simply call the entire region, including those surrounding orbits, ‘L2.’*

*A base there would need to maintain and adjust its orbit according to conditions in space, but it could be a candidate location for a massive space station.”*




*Hibi: “But even if we build a base at L2 and humanity moves there, it would only be a temporary refuge, right...?*
*What if we terraform a safer planet?”*

*Kaz: “I see... So eventually, we’ll have to leave the Solar System...”*
*(The moment he realizes it, he catches his breath.)*

*“Then! Building a massive base at L2... wouldn’t be the ‘final destination.’*
*It would be a ‘port’ where humanity gathers after leaving Earth.*
*We’d evacuate everything there—living organisms, data, all of it—*
*and use it as a ‘launch base’ for setting out into the next frontier of space.*
*In other words—*
*it would be our first step toward escaping the Solar System!”*

*Class: “.....Huh?”*
*(Everyone stares blankly.)*

*Kiki: “W-Wait... Kaz?*
*What dimension are you even talking about right now?”*
*(blinks in disbelief)*

*Ken: “D-Dude... don’t suddenly go into sage mode on us... We can’t keep up with you...!”*

*The whole class: (murmuring)*

*“Outside the Solar System!?”*
*“A port!?”*
*“A launch base!?”*
*“Wait, what just happened?”*
*“What’s gotten into Kaz today!?”*

*YOULA: “Analyzing... analyzing...”*
*(error sound)*

*Hibi: “Then what about terraforming a planet that wouldn’t be affected by the death of the Sun?”*

*Kiki: “Wait a second, Hibi!*
*When you say ‘terraforming’…*
*you mean the terraforming from that game?”*

*Ken: “Kiki! It means the same thing as terraforming in the game, but that game uses simulations that are almost identical to those used in space engineering.*
*So there’s nothing wrong with bringing terraforming into this discussion!”*

*Kiki: “I don’t know… It still just sounds like gaming jargon to me.”*

*Hibi: “I guess it does sound like gaming jargon, doesn’t it?…”*

*Kiki: “Terraforming means turning a planet into an Earth-like environment, right? Like in the game?” (laughs)*

*Hibi: “Kiki. Yeah! It’s the same as the game!” (laughs)*

*Ken: “If we’re going to terraform somewhere, Proxima Centauri b might be tidally locked… But even with our fastest spacecraft, it would take more than 60,000 years to get there. In other words, with current human technology, it’s simply too far away to reach…*
*YOULA, that’s right, isn’t it?”*

*YOULA: “Yes, that’s correct. Proxima Centauri b is about 4.24 light-years from Earth—roughly 40 trillion kilometers away. It is not a distance humanity can easily reach.”*

*Mana-sensei: “Since it seems even YOULA doesn’t know about this yet, I’ll explain it to everyone.*
*Our principal has launched a QT development project, and both Riko-sensei and I are members of that project as well. With the QT system currently under development, we should be able to travel to Proxima Centauri b in just a few seconds. We’re about to enter the final stage of practical testing, so this has been confidential company information until now—but I think it’s time you all knew.”*

*Hibi: "Sensei, does that mean QT could··· maybe take us into the past or the future, too?"*

*Mana-sensei (smiling gently): "Good question, Hibi.*
*QT—Quantum Transfer—is a form of spatial transfer, not time travel."*

*Kiki: "Ohhh! So it's not a time machine after all!*
*Too bad!"*

*Hibi: "I kinda wanted to meet a Tyrannosaurus rex." (laughs)*

*Kiki: "I knew you were gonna say that!*
*Hibi, you're seriously so carefree!"*

*The class: (bursts into laughter)*

*Kaz: "We should build a base at L2 first!*
*And we'll call it—the* ***'Gaia Ark Mega Space Base Project'!***
*What do you guys think?!"*

*Kiki: “Gaia Ark Project! Roger!”*

*Riko-sensei: “Then, in Mana-sensei’s next class, we’ll take the ‘Gaia Ark Mega Space Base Project’ even further.”*

*Riko-sensei: “And starting next week, we’ll have a one-week summer training camp!*
*Everyone, don’t forget your snacks!”* 😆

*The class: “Okaaay!··· What are we, elementary school kids?···”* 😆

AGI SCIENCE HIGH SCHOOL
Stellar activity changes due to the Doppler effect:
Redshift - receding objects (lower frequency)
Blueshift - approaching higher (higher frequency)
Doppler effect → frequency
Particle emissions change frequency in space over time!
(Exploraion-based space technology program)
Trequetum Space Exploration Program trains elite space exploration agents!
(Advanced space technology program)
The Quantum Space Exploration trains elite space exploration agents
(Advanced space technology program)
SCIENCE HIGH SCHOOLERS
WILL BUILD THE FUTURE

## *Scene 7: The Migration of Earth's Entire Ecosystem*

*At last, the AGI Science High School's first-ever summer training camp had begun.*

*But during class, Hibi was troubled by something she couldn't tell anyone about.*

*She had begun to question the risks and inefficiency of transporting people through cryosleep—preserving the human body in a frozen state for long-duration space travel.*

*Riko-sensei took Hibi to the infirmary to check on Rina.*

*Rina was still shaken by the space accident and was resting in the infirmary at the training camp facility.*

*Riko-sensei: "Hibi? You're frowning so hard you look scary. You can't let Rina see you making a face like that, can you?" (laughs)*

*Hibi: "Yes! Sorry! Do I really look that scary...?"*

*Riko-sensei smiled gently.*

*Hibi: “Rina?”*
*Hibi gently smiled and hugged Rina.*
*Rina seemed a little relieved when she heard Hibi’s voice.*

*Riko-sensei: “Hibi, I’m going back to the lab ahead of you.”*

*Hibi: “Yes, ma’am!”*

*Hibi: “Rina!”*
*Hibi hugged Rina tightly once again.*

*Rina: “Thank you, Hibi! I’m okay now! I’ll be back with the class for the afternoon lesson!”*

*Hibi’s inner voice:*
*“Rina’s clear, beautiful eyes really are looking straight at me.”*
*Once again, Hibi found herself drawn into Rina’s eyes.*

*Riko-sensei returned to the class and said, “Rina is feeling better, but she needs to rest a little longer.”*

*Mana-sensei: “Everyone, during the first semester, we briefly discussed where humanity’s new home should be.*
*We’re about to begin the simulation experiments, so you need to decide on a destination soon, or we won’t finish in time during the summer training camp.”*

*The students once again began thinking about the deterioration of Earth’s environment caused by the death of the Sun and the survival of humanity, this time with a realistic migration plan in mind.*

*The discussion began with the issue of resources and eventually expanded to economic and political challenges.*

*Kiki: “Wait a second. Come to think of it…*
*Wouldn’t a space base that big cost an insane amount just to build and transport all the supplies?”*

*Kaz: “You’re right! Good catch, Kiki! Then, YOULA and Kiki, could you put together an estimate of the costs…?”*

*Kaz and his team came up with their next plan: to build the large crewed space base “Gaia Ark” at the L2 Lagrange point. Using it as a platform, they began exploring migration to various planets and also developed a plan for cryosleep spacecraft.*

*Rina: “Hey, is the L2 Lagrange point a planet?”*

*YOULA: “The L2 Lagrange point is not a celestial body.*
*There isn’t actually anything there.*
*L2 is a ‘location’ in space created by the balance between the gravitational forces of the Earth and Moon and their orbital motion.”*

*However, Hibi quietly said, “Whether we’re on the Moon or at L2, in the end, the death of the Sun will make both of them uninhabitable…”*

*Hibi's Flashback: Her Father's Final Words*

*Father: "Hibi... I'm sorry. I've spent so much of my life absorbed in AGI research. But... no matter how advanced an AGI I create, there's still one final piece missing.*

*Hibi: "The final piece?"*

*Hibi: (speechless)*

*Father: "That's why I want you to take this AGI Pad with you.*
*It's something I've spent my entire life creating.*
*But it isn't 'complete.'*
*Even I still haven't found the final answer.*
*That's why I want you to find that final piece, Hibi."*

*Hibi (inner voice): "...Dad.*
*What if Earth—what if all life on Earth—is trying to recreate itself on another world?*
*Gaia Ark, AGI, even us...*
*Maybe we're nothing more than individual cells working toward that purpose.*
*Life on Earth is a child of the Sun, and maybe Dad's AGI exists to help it prepare for the day when it must finally leave its mother—the Sun—and set out on its own..."*

*Hibi: “Maybe planetary Gaia mimetics can’t be achieved through human intelligence alone. It was always meant to be created together with AI, wasn’t it?*
*Dad... that’s what you meant, right? ...”*
*Hibi stood up and held the AGI Pad tightly against her chest. Light streaming through the classroom window illuminated the AGI in her hands with a blue glow.*

*Hibi: “Sensei...! I have a proposal!”*

*Everyone turned to look at her. Mana-sensei and Riko-sensei widened their eyes.*

*Hibi: “Please let me form a research team for ‘Uncrewed Gaia Mimetics’!*

*Using next-generation AGI and KeepGaiaDNA, I want to carry forward ‘Earth’s will to create its own next body.’”*

*Hibi: “The Quantum Biosupport Tower is the command center.*
*It contains the ‘heart’ that sustains the environment,*
*the ‘brain’ that observes and makes decisions,*
*and the ‘administrator’ that integrates the entire system.*
*With this tower…*

*we should be able to ‘regenerate’ Earth itself as a living organism.*

*…*

*I want to create a state in which life on Earth can continue living on its own.”*

*Mana-sensei: “Hibi? What exactly is this ‘Quantum Biosupport Tower’?”*

*Mana-sensei asked Hibi with a gentle smile.*
*That’s right!*
*Mana-sensei had been a member of the Quantum Biosupport Tower development team alongside Hibi’s father!*

*Hibi: “Oh! I’m sorry, Sensei!*
*All my father told me was that the Quantum Biosupport Tower is a system that mimics Earth as a living organism.*

*I’m sorry.*
*He told me that the blueprints were stored in the Internet Archive.*

*It’s the control center for what I was talking about earlier—*
*‘a state in which life on Earth can continue living on its own.’”*

*Mana-sensei: “...Interesting, Hibi.*
*‘Regenerating’ an entire planet as a living organism...*
*That sounds just like you.*

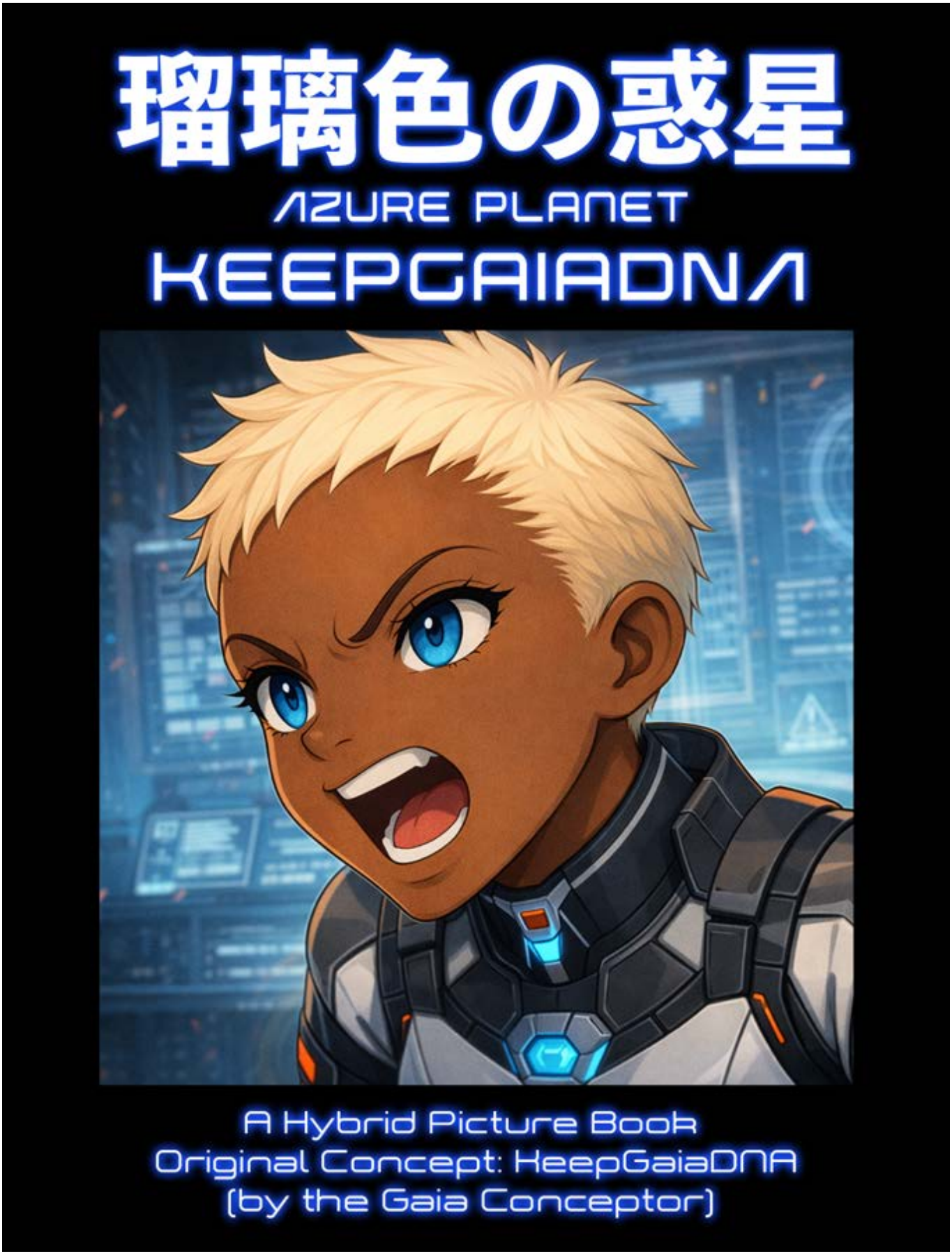
*All right, then. Let’s create another section.*
*You’ll be the leader, Hibi!”*

*At this point, Mana-sensei was the only one who understood what Hibi was really trying to say.*

*That’s right! Mana-sensei believed in Hibi’s father, who had once been her mentor.*

QUANTUM
BIOSUPPORT TOWER
456
PLANETARY BIOSPHERE CONTROL
GAIA REGENERATION SYSTEM

## *Scene 8: The Justice of a Space Exploration Leader*



*Research began in separate labs, with Kaz leading the "Crewed Space Base Gaia Ark" team and Hibi leading the "Uncrewed Gaia Mimetics Quantum Biosupport Tower" team.*

*Riko-sensei: "All right. Kaz will lead the 'Large-Scale Space Base Gaia Ark' construction team. Let's calculate the precise location of the Lagrange point and begin the design and simulations.*
*Hibi will lead the 'Uncrewed Centauri b Gaia Mimetics Project' team.*
*Hibi, first, share the Lagrange point with Kaz. Then let's all discuss the 'Metamorphosis System' and DNA generation technology and begin the simulations."*

*Riko-sensei: "Kaz and his team, head to Neo-Metaverse Lab 1.*
*Hibi, Ken, and the others, let's go to Neo-Metaverse Lab 2.*
*YOULA, stay here for a moment. I need to talk to you.*
*Hibi, go on ahead. I'll send YOULA over later."*

*Ken: "Hibi, Rina, let's go!"*

*Ken was actually the one who knew better than anyone just how fiercely competitive Hibi really was...*
*Taking her first steps as a leader, Hibi held her head high with pride, yet moved forward with a slight sense of uncertainty under the weight of her new responsibility.*

*When they arrived at Neo-Metaverse Lab 2, Hibi and the others began discussing the Centauri b Gaia Mimetics Project. Hibi addressed everyone in the "Uncrewed Centauri b Gaia Mimetics" group.*

*Hibi: "...If we don't do this, it'll all be over."*
*"This planet, our DNA... they'll just disappear if we do nothing. So I'm going to do it. Even if I'm scared. We're going to do this—together!"*

*Neo-Metaverse Lab 2 fell completely silent.*

*Ken: "Huh? 'If we don't do it, we're done for'... Is that supposed to be a threat?*
*Hibi, take a deep breath!" (laughs)*

*Kiki: "Come on, Hibi... calm down.*
*You don't have to rush this much!"*

*Hibi: "I'm not rushing! I'm just taking this seriously!!"*
*"Before we start classifying anything, we need to build a structure that can sustain itself!"*

*(Her voice grows sharper, making the tension in the room even heavier.)*

*Ken (with a wry smile): “Seriously, you’re way too straightforward... But I don’t hate that about you.” (laughs)*

*Kiki: “Well, I hate it! That know-it-all attitude of yours, Hibi!”*

*YOULA (quietly): “Conflict can also mark the beginning of a new evolution. Hibi, you’ve just taken the first step.”*

*Kiki: “YOULA! I’m not fighting with anyone!*
*Hibi’s the one making a huge fuss all by herself! She looks ridiculous!”*

*Rina (quietly): “You know, Hibi... discussions can get heated, but I think that heat can turn into a creative light.*
*And what you just said, Hibi... it’s shining.”*

*Kiki: “What…?*

*Now even Rina’s saying things that make no sense?*

*If you two want to do that, then do it yourselves!*

*Just don’t drag the rest of us into it!”*

*Hibi: “Thank you, Rina. And everyone… I’m sorry.*
*You’re right… I’m sorry.”*

*Rina: “Hibi, could you explain your plan to us slowly?”*

*Ken: “Hibi! First things first—how are we going to get to Centauri b?”*

*Hibi: “If we equip the small uncrewed GSR rocket with ‘Connect Form’—the autonomous collision-avoidance algorithm my dad prototyped before—it can avoid obstacles while searching for the optimal route!*
*That should be in the Internet Archive too!”*

*Ken (laughing):*
*“Hibi… you stayed up all night reading the Internet Archive again last night, didn’t you?”*

*Hibi:*
*“Uh-oh… you caught me?” (laughs)*

*Kiki: “You’ve gotta be kidding me!”*

*The class: (laughter breaks out)*

*Hibi: “And I believe that by using the ‘Gaia Mimetics Quantum Biosupport Tower,’ we can recreate and expand Earth’s ecosystem within the environment of Centauri b!”*

*Ken: “Gaia Mimetics is a technology that learns from and recreates the mechanisms of nature. In other words, it’s about ‘mimicking and protecting the future of life,’ right?”*

*Mana-sensei: “All right, Hibi’s team. Begin preparing to conduct simulation experiments for the ‘Uncrewed Gaia Mimetics Project’ in Neo-Metaverse space.”*

*Hibi’s Team: “Yeees!”*

*Hibi’s proposal seemed radical to the “Crewed Gaia Ark” group.*
*But without hesitation, she was determined to stay true to her own “way of being.”*

*Immediately afterward, tension spread through the group. Kiki's question became the spark that shook the entire discussion.*

*Kiki: "Hey, Hibi...? Even if we use Gaia Mimetics on Centauri b without sending any humans there... what happens to us—to humanity?"*

*Mana-sensei (quietly):*
*"Your discussion isn't about a migration plan.*
*Nor is it about 'who gets to remain in the future.'*
*You're trying to decide what it actually means* ***'to remain in the future.'...***"

*With those words, the atmosphere in the room changed.*
*The discussion shifted from a choice of technology to a choice about existence itself.*

*Kiki: "Wait a second...*
*Does Centauri b even have a source of light to replace the Sun?"*
*"YOULA, what do you think?"*

*YOULA: “Yes. Although it is different from Earth’s Sun, a source of light has been confirmed.”*

*Hibi remained silent for a moment, then answered directly.*

*Hibi: “...Humanity wants to survive too.*

*But we can’t go there right away.*

*So we send something ahead of us.*

*Not ‘us,’ but ‘the information of Earth’s life.’*
*Our DNA.”*

*Kiki: “But this isn’t a ‘game’!*
*Kaz and his team’s Gaia Ark is a realistic option for ‘saving human lives’!”*

*Hibi: “Kiki…*
*Humanity surviving and life continuing aren’t the same thing.*
*If Gaia Ark carries ‘humanity,’ then the Gaia Mimetics system carries ‘life itself.’”*

*Ken: “Kiki, we’re serious about the Gaia Mimetics game too.*
*A ‘game’ isn’t just something we play for fun.*
*The Neo-Metaverse game we’re working with is a scientific simulation in itself.”*

*Kiki: “That’s exactly why we need scientific evidence!*

*I’ve said this over and over, but Hibi, your idea still sounds like nothing more than your own personal fantasy!*

*Ever since we were kids, we’ve been taught at school that everyone is entitled to their own way of thinking. But I refuse to accept yours, Hibi!*

*We’re talking about the future of humanity! There’s no way I can accept it!”*

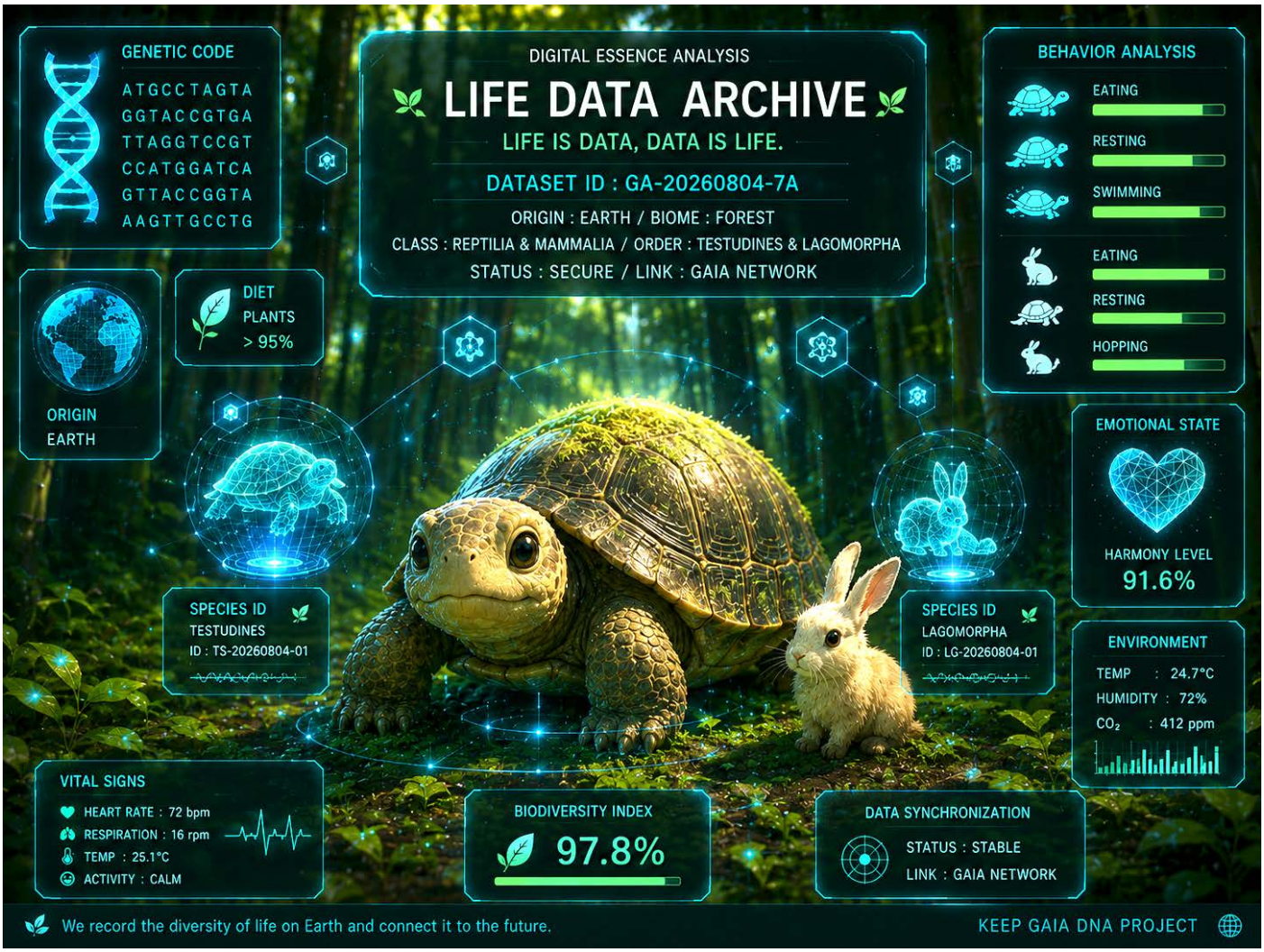
*Hibi: “…It’s not a fantasy. Humanity and technology are both part of ‘the way of being of Earth’s life’!*

*Jellyfish and the ocean belong together, right? It's the same thing!"*

*Hibi: "I'm not thinking about humanity standing at the 'top.' I'm thinking about 'the future of all life on Earth'!"*

*Kiki: "But if we're not there, then the 'living organism' you're talking about is nothing but 'data'!*
*I don't want to accept that!*
*Before we start talking about theories, don't tear humanity apart."*

*Hibi: “Turtles and rabbits—their genes are ‘data’ too!”*




*Kiki (shouting):*
*“Wait a second, Hibi!!*

*Who do you think you are—God!?*

*You’re going to send DNA data and call that ‘life’!?*

*That’s not salvation—it’s just a graveyard of zeros and ones!!”*

*Hibi (finally shouting back):*
*“...No!!*

*This isn’t about ‘whether we’re there’!*

*It’s about ‘whether life can go on even without us’!!*

*This isn’t for you or me—*

*it’s for ‘everything’ that made us what we are!!”*

*YOULA: (trying to stop them...)*
*“Zeros and ones only become a graveyard when there’s nothing there to ‘read’ them.*

*If the right conditions are in place, information can function as ‘structure’...*

*probably.”*

*Ken: “Don’t say ‘probably’! Just stay out of this, YOULA! This is our fight!”*

*YOULA: “Yes! It definitely looks like a fight to me! Yes! …I’ll be quiet.”*

*Kiki (her true feelings boiling over):*
*“In the end, you’re just a shut-in playing around with data and pretending you’re going to save the world!!*

*Let me tell you something, Hibi—nobody chose you to be our leader!!”*

*Hibi (in desperate anger):*
*“...Shut up. Just shut up!!*
*You don’t understand anything about why I’m doing this!*
*You’re not even trying to understand!!”*

*Kiki’s anger finally boiled over, and she blurted out:*
*Kiki: “Riko-sensei!*
*I want to transfer to the ‘Gaia Ark group.’*
*Please, Sensei... let me.”*

*Kiki: “You know what, Hibi...? I’ll tell you one of my favorite quotes!*

*‘Like what you do, and then you will do your best.’*

*Those are the words of NASA’s Katherine Johnson...”*

*Hibi: “Huh?...”*

*Riko-sensei respected Kiki’s decision, and Kiki transferred to the Gaia Ark group.*

*Meanwhile, Hibi was devastated by her inability to explain herself.*

*Memories of the time when she had stopped going to school came flooding back.*

*The fear that she would be rejected tightened around her chest, and Hibi’s heart began to build its shell once again.*

*Hibi: “I wanted to ask Rina to go to Comiket with me this summer…”*

*Rina: “Hibi… my goggles aren’t working right, and I can’t walk to the cafeteria by myself. …Will you come with me?”*
*It was a small “lie.”*
*Rina had realized something.*
*She couldn’t leave Hibi alone.*

*Hibi looked up and took Rina’s hand.*
*A faint smile returned to her face.*

*Hibi: “Rina... I don’t know how to explain it to everyone anymore.*

*At first, I thought Gaia Ark was the only answer too.*
*But... now I feel like it isn’t.”*

*Rina gently placed a hand on Hibi’s shoulder.*

*Looking at her through her cyber goggles, she carefully chose her words.*

*Rina (softly):*
*“Hibi... I think what you’re trying to explain isn’t really about words. It’s about giving it ‘form.’*

*Maybe the structure comes before the words...”*

*Rina: “Hibi, putting things into words is... hard, isn’t it?*

*Can I stay with you and watch the simulation this afternoon?”*

*At Rina’s words, some of the loneliness inside Hibi began to melt away.*

*The girl who had once shut herself away was trying, once again, to stand up by her own will.*

*Hibi: “Thank you, Rina...!”*

*Hibi: “Rina... Comiket is only two weeks away!”*

*Rina bursts out laughing for the first time!*

## *Scene 9: Crisis Strikes the Gaia Ark Space Base*

*Riko-sensei: “Kiki, how is the Crewed Space Base Project Gaia Ark progressing?*
*Please give us an update.*
*And I’d like the financial report as well!”*

*Kiki: “Yes, Riko-sensei.*
*The ‘Large Crewed Space Base Gaia Ark Construction Project’ is currently progressing smoothly in the orbital region around the L2 Lagrange point, relatively close to Earth.*
*I’ll get the financial report ready as soon as possible!”*

*Riko-sensei: “...All right.*
*Let’s officially proceed with the Gaia Ark Project using the orbital region around the L2 Lagrange point as our base of operations.”*

*Kiki: “Yes! This is a special region of space where we can take advantage of the balance of gravitational forces, making it ideal as a base for space observation, communications relay, and long-term exploration.*
*We’re using this base as a testing site for cryosleep technology designed to send humanity to other planets.*
*At the same time, we’re also conducting experiments to create a fully self-sufficient living environment with integrated resource recycling.”*

*Riko-sensei: “How is the power generation system and metamaterial reinforcement coming along?”*

*Kiki: “We’ve introduced a high-efficiency power generation system that uses solar energy, and applied resource-efficient metamaterials to the station’s exterior.*
*We’re currently conducting meteor-impact simulations and testing its resistance to gamma-ray bursts, and we’ve confirmed that the molecular structure of the shielding is more stable than expected.*
*As a result, we’ve also been able to reduce the resources required to operate the station, and the demonstration tests for a fully self-sufficient living environment are progressing smoothly, including in terms of cost.”*

*Riko-sensei: “Understood. Please continue with the demonstration tests.”*

*Kiki: “Yes, Riko-sensei!”*

*The divide between Kaz's group and Hibi's group continued to deepen.*

*Kaz and his team believed that "creating a place where humanity could survive in space should be the top priority," while Hibi and her team believed that "protecting the future of all life on Earth was more important than humanity's survival alone."*

*Both sides held firmly to their ideals, and their unyielding convictions continued to clash.*

*Hibi: “Kaz! With our technology, we can carry life on Earth into the future without humanity having to migrate there directly.”*

*Kaz: “But what about humanity’s own future?*

*We believe there’s meaning not just in preserving life on Earth, but in creating a place where humanity itself can actually live.”*

*Hibi: “I think it would be great if we could do that, but…*

*I’m also starting to wonder whether humanity really needs to remain at the top of the biological world.”*

*Kaz: “Hibi? What are you talking about?*

*We’re talking about a survival plan for humanity, remember?”*

*Kaz: “Hibi… you haven’t gotten into some weird religion or anything, have you…?”*

*Hibi bursts out laughing despite still being angry. “Pfft! Of course not!*
*How did you even come to that conclusion!?”*

*Kaz: “Well, because you keep talking about ‘life on Earth’ and all that...?”*

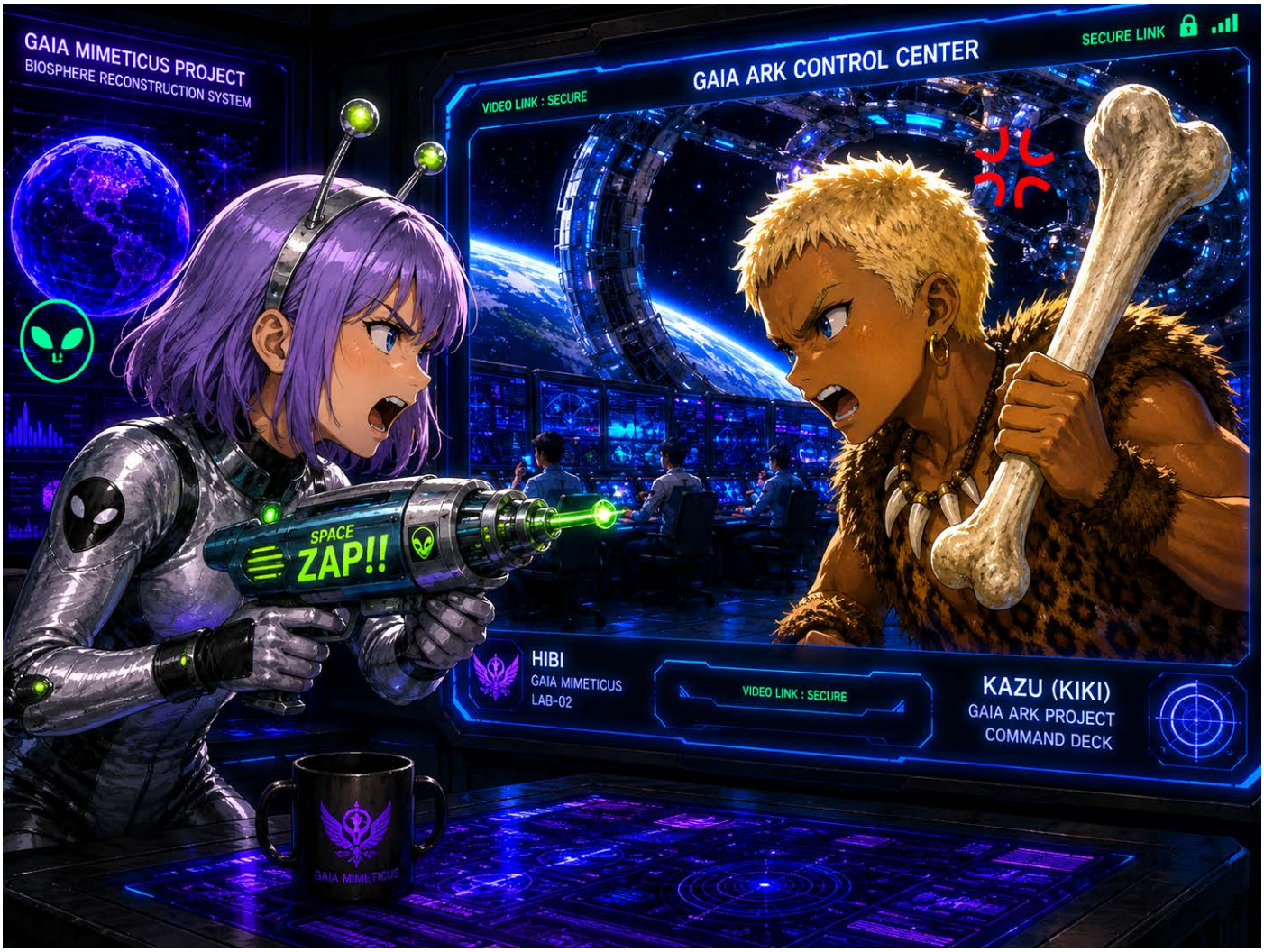
*Hibi: “This isn’t a religion!*
*We’re talking about ecological engineering and information science!”*

*Kaz: “That just makes it sound even more suspicious…”*

*Hibi: “I’m working on a survival plan for all life on Earth!*
*Do you have any idea how difficult it would be to build an ecosystem on another planet with humanity at the top again!?*
*What, are humans just going to start another ‘space war’ out there…?*
*I don’t want a future like that!”*

*Kiki: “Hibi! Are you talking about that alien-generating machine again!?*
*You alien!”*

*Hibi: “Do you really think you can make another planet just like Earth?*
*Kiki, you’re a caveman!”*




*Kaz: “Not a planet! That’s why we’re planning to build the Gaia Ark—a massive crewed space station!”*

*Ken: “Come on, guys, don’t get so worked up! Let’s see how both experiments turn out—the Gaia Ark and the Centauri b Gaia Mimetics—then decide, okay?”*

*Kiki: “Ken! That’s not the point! This isn’t about results—it’s about ethics!”*

*Rina: For the first time, her expression turns frightening... She says nothing, her anger completely exposed as she glares at Kiki...*

*Kiki: “Yikes! Rina can’t even see, and she’s glaring right at me! ...Scary!”*

*Riko-sensei: “Mana-sensei, the Gaia Ark needs the space-farming and water-generation technologies Hibi’s team is developing.*
*And Hibi’s team needs the metamaterials and high-speed rocket technology Kaz’s team is working on.*

*The problem is, their rivalry has gotten so intense that neither side is willing to work with the other.”*

*Mana-sensei: “And that’s exactly what they need to learn most.”*

*(Suddenly, a hologram flickers to life, and the charismatic principal appears before Riko-sensei and Mana-sensei.)*

*Mana-sensei & Riko-sensei: “P-Principal Charisma!?”*

*Principal Charisma:*
*“Riko-sensei, Mana-sensei, even as we teach our students, I believe there is much that we, as educators, can learn from them as well.”*

*“And I believe that what matters even more than simply giving students the answers is showing them how teachers and researchers can have dreams—not merely waiting for those dreams to come true, but reaching out and drawing that future into reality themselves.”*

*“I have faith in the teachers and researchers of this school—and in our students.*

*Please guide these young people toward the future that lies ahead of them.*

*I entrust them to you.”*

*Bzzzt—SHOOOON! (The hologram disappears.)*

*Mana-sensei: “Being a teacher… is difficult.*
*You just can’t help wanting to step in.” (smiles)*

*Kazu and the others moved on to the next stage in the Gaia Ark Laboratory,*
*entering a hands-on simulation phase using Neo Metaverse Space—*
*an ultra-high-performance AI metaverse.*

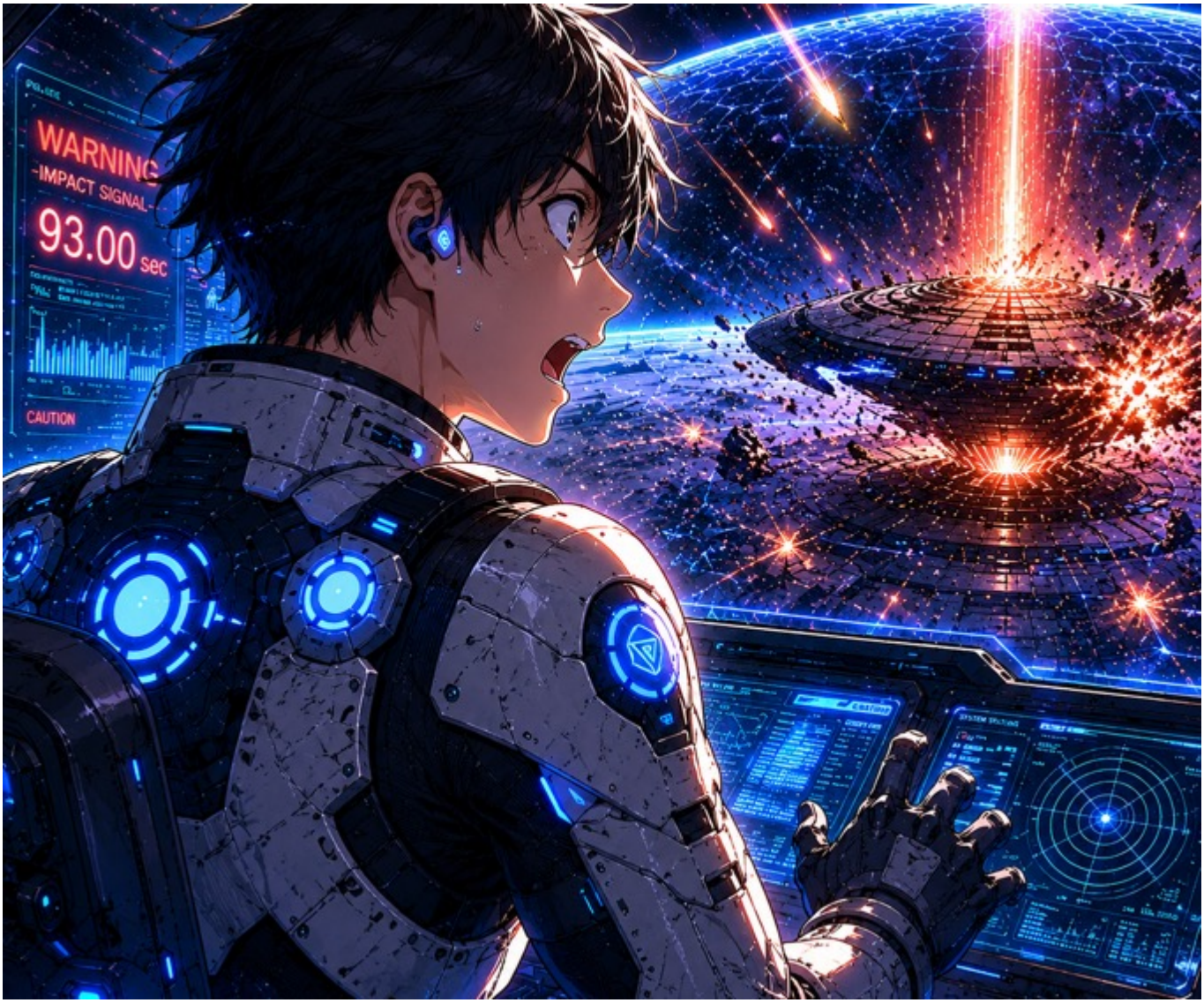
*There, AI-driven experiments had begun on the autonomous evolution of “gravity-control fields” and “metamaterial structures.”*

*AI transferred the structures it had designed within the virtual universe to the real-world lab,*
*where they could self-repair and optimize themselves at the molecular level—*
*as if the materials themselves possessed a will of their own and were evolving.*

*However, immediately afterward, the program suddenly malfunctioned.*
*The asteroid avoidance system shut down, and a meteor began approaching the space station at L2.*
*(Alarms blare throughout the station.)*

*System: “Warning! Incoming meteor swarm detected. Defense systems are offline!”*

*Kazu: “What!? Activate the emergency shields! Check the control systems, now!”*




*The students immediately began responding at their assigned stations.*
*YOULA analyzed the station's defense program, while Hibi remotely transmitted the simulation data.*

*The metamaterial-reinforced outer wall was struck by a meteor,*
*sending a shock through the station. Small cracks appeared, and alarms warning of an air leak began to blare.*

*Kiki: “The shield won’t hold!*

*Cracks are forming in the outer wall!”*

*Kazu: “Cooling system to maximum output! Make emergency repairs to the outer wall!”*

*Hibi's team proposed using the "self-repairing biopolymer" they had developed during their terraforming experiments as an emergency repair material.*

*Hibi: "Kazu! The self-repairing biopolymer we're developing might be able to stop the air leak temporarily!"*

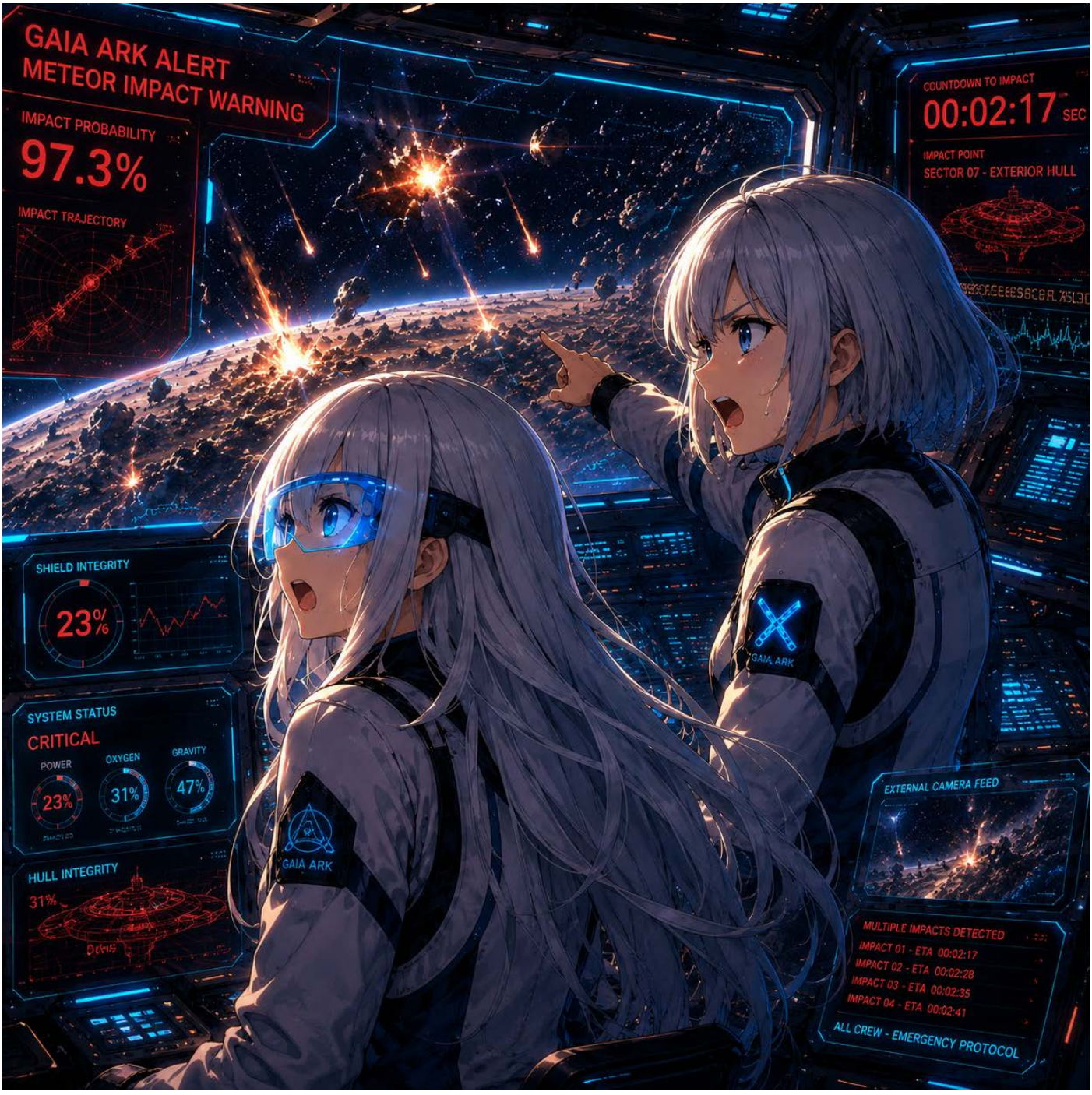
*Kazu: (hesitates for just a moment, then quickly nods)*

*“...All right! Hibi, send me the data!”*

*Hibi: “Ken! Transfer it!*
*Wait, there’s no time to explain how to operate it...*
*Ken, guide them through everything remotely!”*

*Ken: “Roger!”*

ケン：「キキ！生物膜のバリア制御は、
こっちで周波数同期を取って遠隔操作する！」




*Kiki: “Got it! I’ve already tuned the outer-wall system to match that ‘molecular activation signal’!*
*I’m counting on you, Ken!”*

BREACH
AIR LEAK
DETECTED
GAIA ARK

*The simulation data was transferred,*
*and the students at the station began sealing the cracks in the outer wall using the self-repairing biopolymer.*
*The aftershocks from the impact gradually subsided.*

*At last, the students took a deep breath,*
*realizing they had made it through the crisis.*

*Kazu: “...Not bad, Hibi.”*

*Hibi: “That’s because I’ve got Ken! ...You’re pretty good yourself, Kazu.”*

SELF-REPAIRING
BIOPOLYMER
SEAL THE BREACH
TERRAFORMING BIO-MATERIAL TEST

*Hibi and the others valued “protecting the future of all life on Earth” above all else,*
*and had even begun to question whether humanity truly needed to remain at the top of the biological world.*

*Meanwhile, Kazu and the others found meaning in “creating a place where humanity could survive,”*

*placing their faith in technology, engineering, and the power of AI.*

*Their ways of thinking were different,*
*but both were looking toward the future.*

*And this small difference*
*would eventually set their destinies on very different paths.*

HIBI

## *Scene 10: The Gaia Mimetics Project*

*Hibi's group, guided by YOULA's explanations, looked back on the epic history of how Earth had nurtured life through simulations in the Neo Metaverse.*

*YOULA: "About 4.6 billion years ago,*
*Earth was born.*
*Then, about 3.8 billion years ago—*
*tiny forms of life appeared in the oceans.*

*They were primitive microorganisms*
*known as bacteria and archaea.*

*Over the course of immense spans of time,*
*cyanobacteria emerged*
*and began producing oxygen*
*through photosynthesis.*

*That oxygen gradually accumulated in the atmosphere,*
*and eventually, life began to move*
*from the oceans onto land."*

*YOULA: (in a more serious tone)*
*"But—*
*Earth is now reaching a major turning point.*
*The consumption of resources,*
*changes in the environment,*

*and the evolution of the Sun that awaits us in the distant future.*

*Even so,*
*we still have a choice.*
*Will we allow the history of life to end here?*

*Or will we carry it forward into the future?*
*The answer*
*is for those of us living today to decide."*

*Hibi: (after a brief pause)*
*"I believe humanity has a role that only we can fulfill.*
*And that is to carry the will and DNA of Earth's life to other worlds before the Sun dies."*

*Hibi had already imagined this idea at the age of nine, while looking through books about space.*

*But she kept it deep within her heart.*

*Because telling people that wouldn't make the idea itself any more convincing.*

*YOULA: (quietly, as the scene shifts)*
*"The first step is the 'Gaia Mimetics Project' on Centauri b."*

*Rina: (murmuring softly)*
*"Somehow... it feels like Earth is saying, 'Notice me...'"*

*YOULA: (nodding)*
*"That's a very important realization, Rina.*

*Perhaps Earth created 'all of you'*
*through the process of evolution.*

*Perhaps it was Earth itself*
*that has brought this project this far."*

*YOULA: (turning its gaze from Hibi back to the simulation)*
*“Evolution is a continuous series of ‘choices.’*
*Life has continued to choose the ‘optimal solution’ for each era.”*

*Ken: (his eyes narrowing as models overlap in his mind)*
*“...Wait. This... is basically a planetary-scale ‘interconnected ecosystem model’...*
*No, it’s even more precise... This is seriously insane.*
*Right now, Earth looks like one single living organism.”*

*Rina: (immediately reacting to Ken’s words)*
*“Earth looks like ‘one living organism’...*
*Ken, that’s what you felt, right?*
*Then... how did genes come into existence?*
*And in the first place... who created life?”*

*Ken: “H-Hey, Rina...*
*Don’t just hit me with a question like that out of nowhere.*
*The origin of life is one of the biggest mysteries in science...*
*But... yeah. Now I’m curious too...”*

*YOULA: (after a pause)*
*“There is no definitive answer to that question.*
*We can analyze how genes work,*
*but ‘why’ they came into existence—*
*that remains a question posed to us by the universe.”*

*YOULA: (choosing its words gently)*
*“I also see it this way.*

*Perhaps genes are a ‘mechanism of will’ created by Earth to carry life into the future.*

*...However, some observational systems have detected ‘information structures’ that cannot be explained by that alone.”*

*Rina: “So, does that mean genes are—*
*like a ‘message’ Earth passed on to the future?”*

*YOULA: (smiling gently)*
*“Exactly. Earth has nurtured a vast diversity of life*
*and refined the mechanisms of evolution.*
*And now—*
*you are the ones who have been entrusted with that message.”*

*Ken: (quietly)*
*“…This feels less like life is evolving…*
*and more like ‘information’ itself is trying to become life…”*

*YOULA: (slowly showing them the screen)*
*“This is a time-lapse simulation of Earth’s evolution.*
*The primordial oceans, the rise of oxygen, dinosaurs,*
*mammals, civilization—*
*all of it leads to the ‘next chapter’ on Centauri b.”*

*Hibi: (after a brief pause, with determination)*
*“…The Gaia Mimetics Project, right?*
*Then we’ve just gotta do it. We’re the ones who have to!”*

*Ken: “Whoa, Hibi! Don’t get too excited again! ...All right! Let’s start by analyzing the environment on Centauri b!*
*YOULA! Put the data up on the monitor!”*

*YOULA: “The surface environment of Centauri b, at the time of arrival, is at a level where life is just barely unable to survive.*
*The atmosphere consists mainly of carbon dioxide with trace amounts of nitrogen, and the oxygen concentration is below 0.1%.*
*Surface temperatures vary drastically between day and night, and exposure to ultraviolet and cosmic radiation is higher than on Earth.*
*Water does exist, but most of it is trapped deep underground as ice, so imagine the planet as a vast, dry, reddish-brown wasteland.”*

*Hibi: “YOULA, what should we prepare first?”*

*YOULA: "Before that, everyone, please listen.*
*Before we consider terraforming Centauri b, let's first identify the planet's 'unchangeable conditions.'*
*Trying to modify a planet without knowing what's there would be like building a space station without looking at the blueprints."*

*Phase 0: Planet Characterization*

- *Gravity, radius, and density*
- *Stellar spectrum (red dwarf flare frequency)*
- *Presence or absence of a magnetic field*
- *Total reserves of volatile substances ($H_2O$, $CO_2$, $N_2$)*
- *Surface temperature distribution*
- *Ultraviolet radiation levels*

*"What matters here is not 'changing the planet,' but understanding the conditions that cannot be changed."*

*Phase 1: Atmosphere & Hydrosphere Seeding — Pre-Biological Stage*

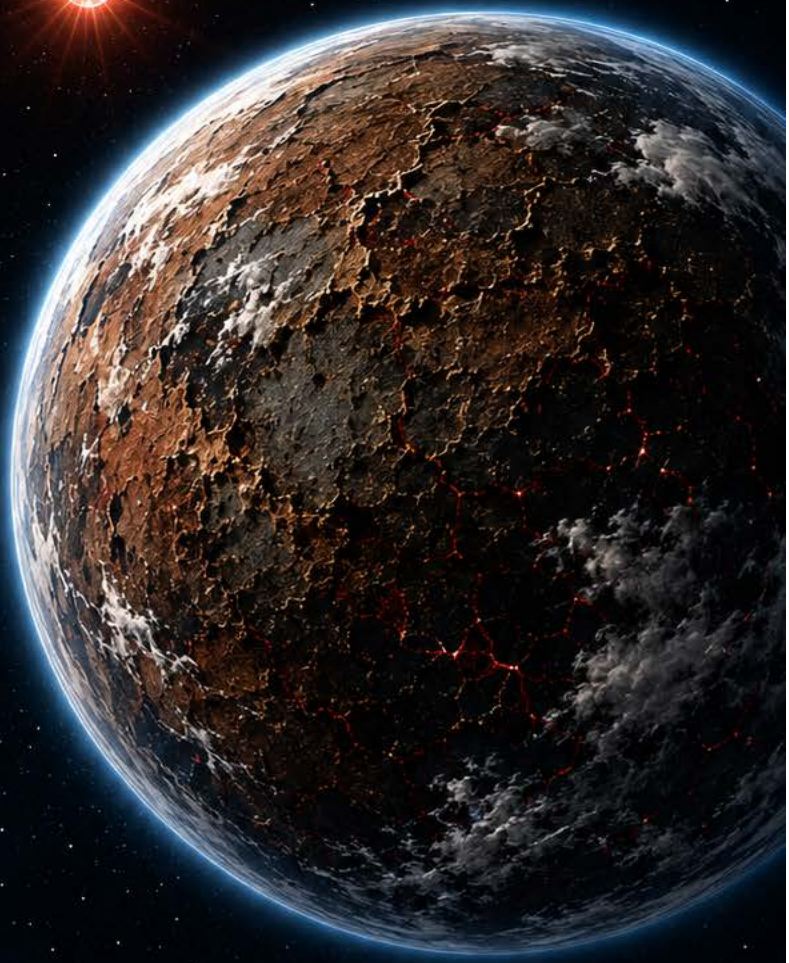
- *Release of volatile substances (sublimation of icy bodies and subsurface ice)*
- *Greenhouse gas regulation*
- *Increase in surface pressure*
- *Stabilization of liquid water*
- *Goal: Create conditions in which liquid water can remain stable for extended periods.*

# ケンタウリb

## CENTAURI b

赤色矮星（ケンタウリ）系

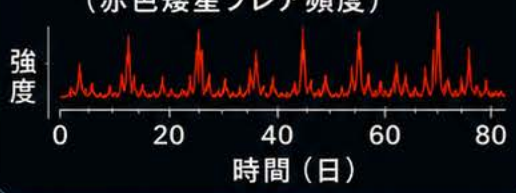
SCAN MODE
PLANETARY ANALYSIS



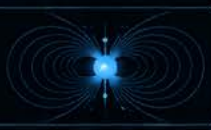
### 基本情報

| | |
|---|---|
| 質量 | 0.95 $M_\oplus$ |
| 半径 | 0.98 $R_\oplus$ |
| 重力 | 0.93 g |
| 公転周期 | 23.6 日 |
| 軌道距離 | 0.12 AU |
| 表面温度 | −20 ～ 40 ℃（推定） |

### ① 恒星スペクトル
（赤色矮星フレア頻度）

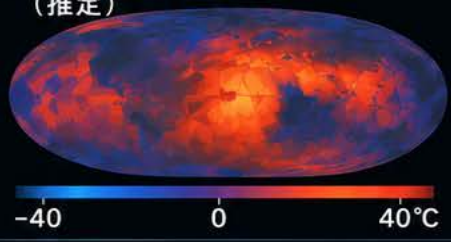



### ② 磁場の有無
（弱い／不安定）



### ③ 揮発性物質の在庫量
（水・$CO_2$・$N_2$）

### ④ 表面温度分布
（推定）




### ⑤ 紫外線量
（高い／変動大）

ここで重要なのは、
「惑星を変える」ことではなく、
**“変えられない条件”**
を知ることです。

The important thing here is not changing the planet.
It's understanding the conditions that can't be changed.

DATA SOURCE : GAIA ARK OBSERVATORY

SYSTEM : GAIA_METRICS v4.2.1

## Phase 2: Oxygen Sink Exhaustion

### Pre-Cyanobacteria Stage

- Oxidation of reduced minerals
- Sequestration of $Fe^{2+}$ in the oceans
- Stabilization of sulfides

This is the biggest time-limiting factor.

Oxygen disappears before it can accumulate.

## Phase 3: Photosynthetic Biosphere

### The First Biosphere

- Cyanobacteria
- Photosynthetic microbial mats
- Shallow-water biofilms

Result: Oxygen production shifts from being consumed to accumulating.

## Phase 4: Eukaryotic Expansion

### The Beginning of Complex Metabolism

- Algae
- Symbiotic microorganisms
- Establishment of organic matter cycling

This is the first stage at which

“the environment begins to sustain itself autonomously.”

Phase 5: Pre-Complex Ecosystem

Preparation for Higher-Order Ecosystems

- Nutrient cycling
- Stabilization of carbon fixation
- Formation of surface soils

There are still no animals.

At this stage, the planet is capable of sustaining itself as an autonomous ecosystem.

*YOULA: “Using Phases 1 through 5 as your guide, I’d like all of you to discuss how you would actually go about terraforming Centauri b from this point forward.”*

*Rina: “But… who’s actually going to terraform Centauri b in the first place? Are we going to do it remotely?”*

*Ken: “No one’s going there at first. We’ll start with just the machines…”*

*Hibi: “I told you before, remember? The ‘Quantum Biosupport Tower.’*

*After my father told me about it,*
*I kept going through the design documents he left behind.*

*It’s a system modeled after Earth’s living systems—*
*one that controls the conditions*

*so that Earth life*
*can survive on its own.”*

ヒビのメモ

# Quantum Biosupport Tower
（量子バイオサポートタワー）

地球生命体を模倣して、地球生命体が
自分で生きていける状態をコントロールする司令塔！

**目的**
地球生命体を模倣した
システムを用いて、惑星環境を
自律的に維持・再生させる。

## タワーの役割（4つのコア機能）

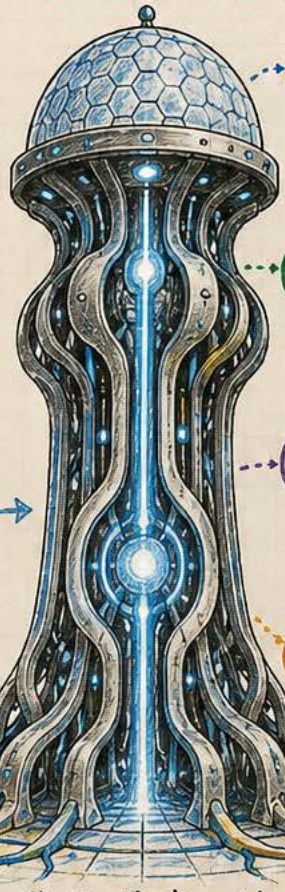
### 入力（INPUT）

**KeepGaiaDNA**

地球生命体の
DNA情報
（すべての生命の
設計図）

**AGIコア**

環境リンク構造を解析し、
最適な状態を計算



① **観測**
惑星環境を
リアルタイムで
観測・収集

② **判断**
AGIが環境
バランスを解析し、
最適な判断を下す

**制御**
環境システムを
自律的に
コントロール

**記録・学習**
すべての変化を記録し、
次の進化に活かす。

### 出力（OUTPUT）

自律維持システムへ

外部からの指示がなくても
地球生命体が自分で
生き続けられる状態へ

## 惑星環境を統合制御

大気システム
組成・循環の
最適化

水循環システム
生成・浄化・循環の
最適化

生物圏システム
生命の多様性と
生態系の維持

地表・地形システム
地形・地質の
安定化

土壌システム
土壌の形成・再生と
栄養循環の維持

土壌システム
土壌の[illegible]
安定[illegible]

エネルギーシステム
エネルギーの確保と
安定供給

etc…

**Phase 1～5 を自律的に実行！**

最終目標：地球生命体が、
自分で生きていける状態へ
（自律維持型生態系）

*Rina: "So we're leaving everything to AGI robots?"*

*Ken: "It's more like a 'factory' than a robot.*
*A planet-scale automated plant."*

*Hibi: "It repairs itself, replicates itself, and builds the environment while recycling the planet's resources!"*

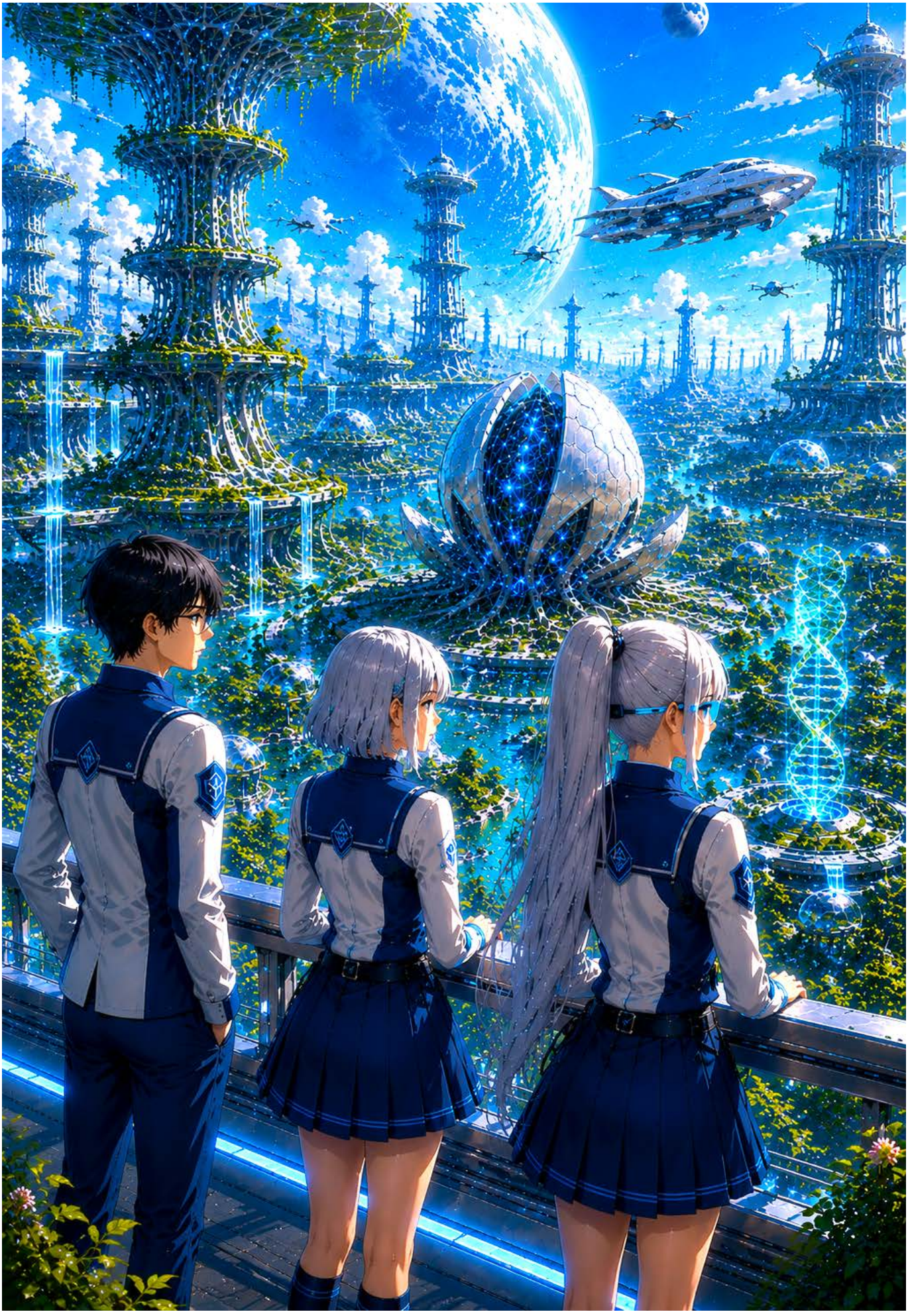
*Rina: "So even though humans won't be going there,*
*our 'proxies'—working in our place—will be the first ones to settle there?"*

*Ken: "So the first thing we send down to Centauri b won't be a finished building or a team of robots.*
*It'll be* ***'the ability to build' itself.****"*

*Hibi: "Our role is to build the stage for an ecosystem before we introduce life."*

*Rina: "...Then how is that any different from a living thing? Is the 'Quantum Biosupport Tower' alive? Or is it an AGI robot?"*

*Ken: "It's not an AGI that you control.*
*It's what we call an AGI-driven organic construction system that continuously makes decisions to maintain the environment."*



*Hibi: “Once you give it a goal, it keeps working until the environment converges toward that state. It’s the kind of system that doesn’t wait for instructions…*
*Rina! See…? I told you earlier, remember? That thing about ‘the planet being able to sustain itself as an autonomous ecosystem.’” (laughs)*

*Rina: “So it’s not remotely controlled…*
*It makes its own decisions on-site?”*

*Ken: “The communication delay is measured in years, after all. Earth can’t be the cockpit.” (laughs)*

*Rico: “Sorry! Everyone, try not to let the discussion get too far off track.”*
*“The first thing that matters isn’t the atmosphere or the oceans.*
*It’s whether a microscopic self-replicating system can establish itself as a stable structure.”*

*Rina: “Yes, ma’am!”*

*“Ken… so instead of ‘putting life on the planet,’ we first create* ***‘a planet where life can keep living’?”***

*Class: (Everyone nods.) (laughs)*

*Ken: (laughing) "Wait, wait! Let me sort this out! The **'unit of existence = the gene,'** right?*

*Bacteria and cyanobacteria: they have DNA, so they can reproduce.*

*Eukaryotes: more complex genetic systems.*

*Ecosystems: collections of genes create cycles.*

*Terraforming: spread genes and change the environment.*

*So... maybe **life is an information structure that replicates genes...**"*

*Rina: "So in the end, we send the DNA information first, prepare the planetary environment,*
*and then nurture life from there?"*

*Hibi: "Exactly! Just like you said, Rina. If the planet is already nurturing life like that...*
*then the planet itself is already **living as a life-form**, right?"*
*(laughs)*

*Rina: “Hey, Hibi…*

*Don’t you think the inside of our bodies is kind of like a quiet ocean?”*

*Hibi: “It doesn’t smell like the ocean, but yeah… there really are ions flowing through us.”*

*Rina: “Yeah… the waves may be small, but the fluctuations never stop, right?”*

*Hibi: “Yeah… it’s almost like something deep inside our bodies is quietly glowing…”*

A-6

*Rina: “I think the cells in our bodies are a continuation of the ancient oceans.*

*So… maybe moving life to another planet means*
***moving the ocean itself.”***

*Hibi: “Talking with you is so much fun, Rina!*

*Wait... you took your goggles off. Can you actually see?”*

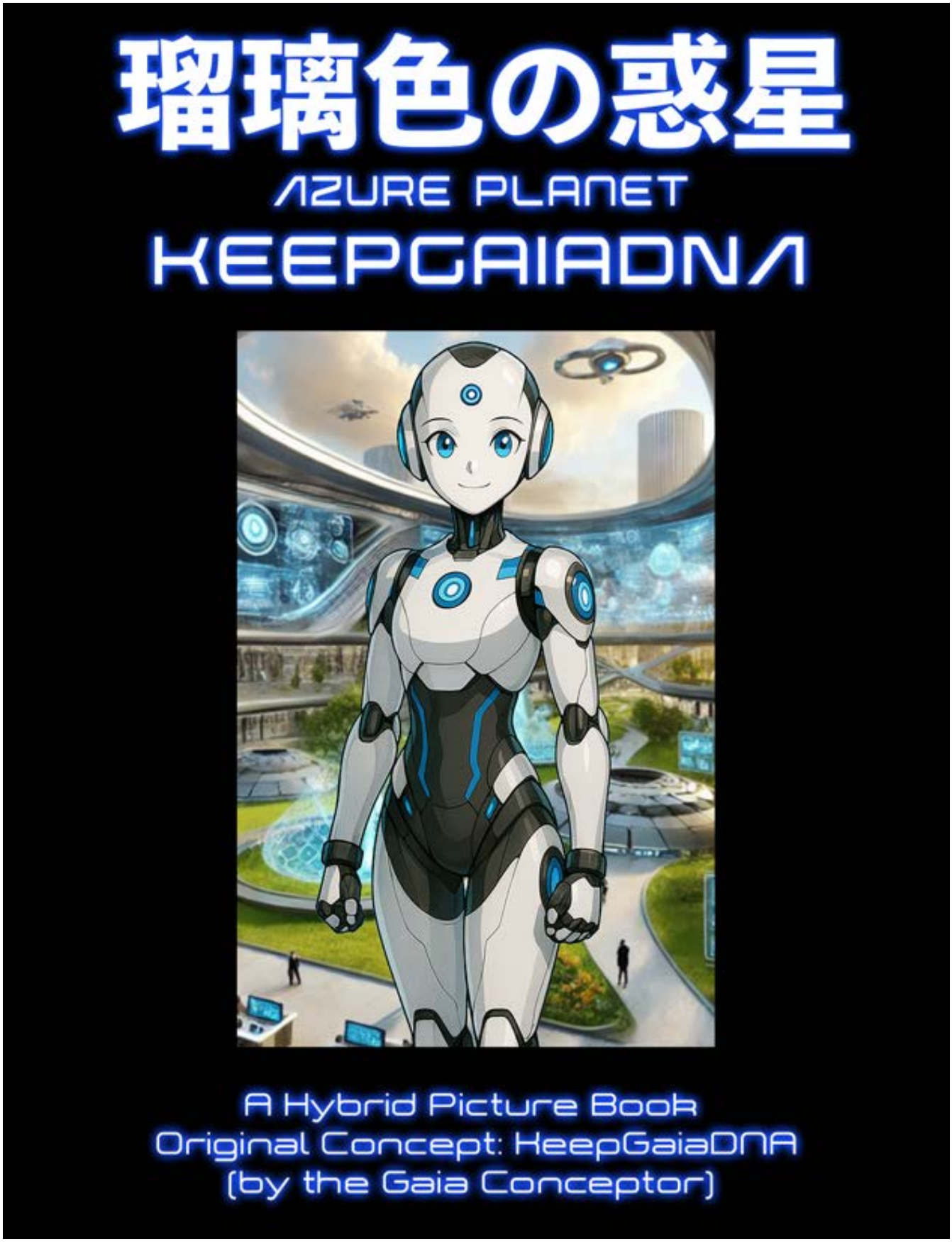
*Rina: “I’m just feeling it.” (laughs)*

*Hibi: “Rina! It’s break time—let’s go to the bathroom!”*

ANCIENT OCEAN MEMORY
Life began in water. Our cells still remember it.
Every planet carries an ocean.
Move the ocean... and you move life itself.
KEEPGAIADNA

AGI
SCIENCE HIGH SCHOOL
Our Mission
To understand life.
To protect Earth.
To create the future.
EARTH DATA
Climate 22.6°C
Oxygen 20.95%
Biodiversity Stable
AI Safety Normal
AGI SCIENCE HIGH SCHOOL
RESEARCH & EDUCATION CAMPUS.
CONNECTING MINDS, BUILDING FUTURES.
LEVEL 2
> RESEARCH WING
> AI SIMULATION LAB
> SPACE SYSTEMS
> BIOSPHERE LAB
> OBSERVATORY DECK
2-A
WALK ASSIST
歩行アシスト ON
STUDENT NAVIGATION
2-A
Classroom
200 m
ENVIRONMENT
23.6°C
45%
AQI 12

## *Scene 11: The Call of the Planet*



*Ken and the others were monitoring the integrated analysis data being transmitted from the unmanned Gaia-Mimetics base,*
*Quantum*
*Bio-Support Tower.*

*Humanity had not yet set foot on the surface of this planet.*
*However—*
*Preparations to transform the planet into an environment where life could exist had already begun.*

*YOULA: “Yes. This is the initial Gaia-Mimetics system that will be implemented on Centauri b.”*

*(A simulation of the entire planet appears on the monitor.)*

*YOULA: “The initial basic terraforming system consists of*
*the Atmospheric Modification Unit, AMU,*
*the Subsurface Ice-Melting Probe, H-Melt,*
*the cyanobacteria-based biocatalyst, BLUE-01,*
*and the*
*Quantum*
*Bio-Support Tower,*
*which synchronizes and controls them on a planetary scale.”*

*YOULA: “Furthermore, in orbit,*
*the artificial moon-type environmental control satellite,*
*‘Lunaris Generator,’*
*is in operation.*
*It stabilizes gravity, the magnetic field, tidal effects, and climate patterns over the long term,*
*supporting environmental changes across Centauri b.”*

*YOULA: “I will explain the role of each.”*

*【Atmospheric Modification Unit (AMU)】*
*・Breaks down carbon dioxide and creates the foundation for the oxygen-generation process.*
*・Autonomously generates catalysts suited to the mineral environment of Centauri b and optimizes atmospheric modification efficiency.*

*【Subsurface Ice-Melting Probe (H-Melt)】*
*・Slowly melts ice resources located deep within the planet.*
*・Releases water vapor into the atmosphere and assists in the future formation of a precipitation cycle.*

*【Cyanobacteria-Based Biocatalyst (BLUE-01)】*
*・An initial life system based on Earth’s cyanobacteria, redesigned to adapt to Centauri b’s mineral environment, ultraviolet radiation levels, and temperature conditions.*

*・Using light energy to generate oxygen, it is planned to be dispersed in trace amounts across the surface as a “biological micro-factory.”*

*YOULA: “In the Centauri b Gaia-Mimetics Project,*
*atmospheric modification by AMU,*
*preparation for the water cycle by H-Melt,*
*and formation of the initial photosynthetic biosphere by BLUE-01*
*will gradually increase the concentration of oxygen in the atmosphere.”*

*YOULA: “However, on this planet—*
*before introducing life,*
*we must first cultivate an environment in which life itself can exist.”*

*YOULA: “The Quantum Bio-Support Tower*
*integrates all of these systems*
*and serves as the central control system of the Gaia-Mimetics Project,*
*monitoring and regulating environmental changes on a planetary scale.”*

# YOULAによる初期ガイアミメティクスシステムの説明

計画では、AMUによる大気改質、H-Meltによる水循環準備、BLUE-01による初期光合成圏形成によって

**大気中の酸素濃度**を段階的に上昇させます。

この星の呼び声が、
彼らを次の挑戦へと導いている。

**ルナリス・ジェネレーター**
人工月型環境制御衛星

- 重力制御
- 大気環境の安定化
- 気候の周期化
- 惑星磁場の制御
- 潮汐の調整

無人マイクロロケット
GSR-2

- テラフォーミング資材の輸送
- コアシステムの連携

**クォンタム・バイオサポートタワー**
統合制御・解析中枢

- 大気改質の統合制御
- 生体基盤の注入最適調整
- 生態系シミュレーション
- AGI制御システム
- ガイア・ミメティックAI

## ① 大気改質ユニット（AMU）

二酸化炭素を分解し、酸素生成プロセスの基盤をつくる。ケンタウリbの鉱物環境に合わせた触媒を自律生成し、大気改質効率を最適化する。

効果：大気中の酸素の"種"をつくる

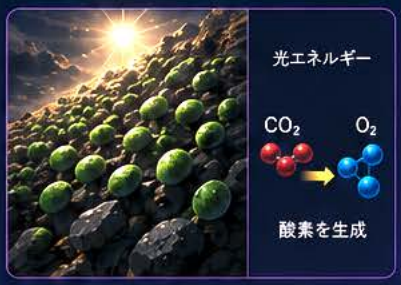
## ② 地下水融解プローブ（H-Melt）

惑星深層に存在する氷資源をゆっくり融解する。水蒸気を大気へ送り、将来的な降水サイクル形成を補助する。

効果：水循環の"準備"を整える

## ③ シアノバクテリア系バイオ触媒（BLUE-01）

地球のシアノバクテリアをベースに、
ケンタウリbの鉱物環境、紫外線量、温度条件へ適応するよう再設計された初期生命システム。
光エネルギーを利用して酸素を生成する
「生物マイクロ工場」として、地表へ微量散布される予定




効果：初期光合成圏の"基盤"を形成する

## 統合制御プロセス

重力制御
↓
磁場制御
↓
気汐作用制御
↓
気候パターン制御

AMUによる大気改質 ＋ H-Meltによる水循環準備 ＋ BLUE-01による初期光合成圏形成
⇒ 大気中の酸素濃度を段階的に上昇

酸素濃度：低 ——— 酸素濃度：高

*YOULA: “Humanity has not yet touched this planet.*
*Even so—*
*Centauri b has already begun to change.”*

*On the surface of Centauri b,*
*the core terraforming systems transported several months earlier by the unmanned small rocket GSR-2*
*continued their quiet autonomous operation.*

*The unmanned Gaia-Mimetics Quantum Bio-Support Tower, faintly emitting a pale blue pulsating light,*
*continued its analysis and control of the deep planetary crust, atmosphere, and water cycle.*

*The Atmospheric Modification Unit, AMU,*
*analyzed changes in the planetary environment in real time, while H-Melt monitored the state of subsurface resources.*
*BLUE-01 had not yet been dispersed.*

*Hibi and the others in Lab B*
*were monitoring footage transmitted from the unmanned small rocket GSR-2 that had arrived at Centauri b.*

*YOULA:*
*“This is the integrated analysis from the Quantum Bio-Support Tower.*
*AMU and H-Melt are operating within the specified parameters.*
*BLUE-01 has not yet been dispersed.*
*However—*
*the oxygen concentration has increased by 0.1 percentage points.”*

*Ken: “You mean the oxygen increased without BLUE-01?”*

*YOULA: “Yes.*
*At this time, it is estimated to be the result of an unidentified reaction occurring in Centauri b’s atmosphere or on its surface.”*

*Hibi: “...Wait.*
*Then... you’re saying BLUE-01 isn’t what’s increasing the oxygen...?”*

*Hibi: (Looking up at the clouds, frowning)*
*“This planet is going wild…*
*Is this really going to be our future?”*

*Ken: (Without hesitation)*
*“The future is up to us.*
*We’re going to make this place humanity’s second home!*
*…Rina, just to be safe, check the gravity control values of the ‘Lunaris Generator’!”*

*Hibi: “What’s wrong, Rina?*
*That’s the ‘Lunaris Generator,’ right?”*

*Rina: “Yeah, I know that because I borrowed your notes, Hibi…*
*But that’s not it… Something feels strange.”*

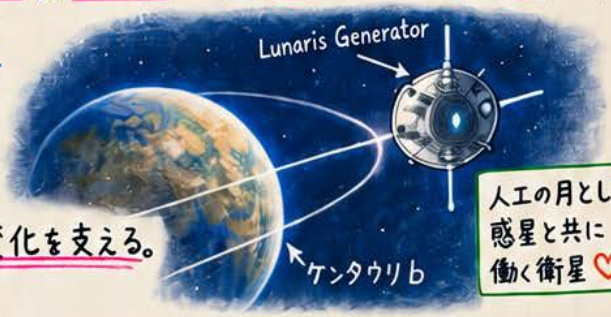
2063.11.14(火)　惑星環境工学I

# ルナリス・ジェネレーター
## (Lunaris Generator)

リナへ
今日はこれをやったよ！
ゆっくり休んで
また一緒に勉強しよう！
ヒビ♡

## 1. ルナリス・ジェネレーターとは？

ケンタウリbの軌道上に配置された
人工月型の環境制御衛星。
重力・磁場・潮汐作用・気候パターンを
長期的に安定化させ、惑星全体の環境変化を支える。




## 2. 主な役割（4つのコア機能）

### ① 重力制御

- 惑星の自転・公転に合わせて重力を最適化
- 大気・海洋・生態系の安定に必要

### ② 磁場制御

- 恒星フレアや宇宙線から惑星を守る
- 大気の保持、生命の保護に不可欠

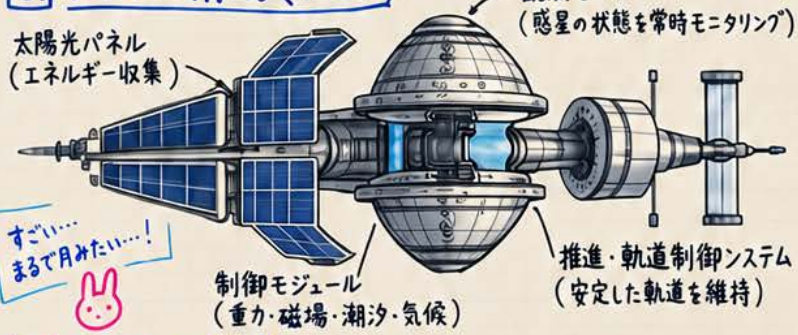
### ③ 潮汐作用の調整

- 海の循環をコントロール
- 気候の安定化
- 栄養循環の促進

### ④ 気候パターン制御

- 大気の循環パターンを 調整
- 温度・降水・風の分布を最適化
- 生態系が安定して発展できる環境をつくる

## 3. システム構成（イメージ）




## 4. データの流れ

観測データ収集
（惑星・大気・海洋・地表）
↓
AGIによる解析
（環境バランスの最適解を計算）
↓
各システムの自動制御
（重力・磁場・潮汐・気候）
↓
惑星の環境が安定
（生命が生きていける状態へ）

リアルタイムで
データを見て
くれているんだ…！

## 5. フェーズとの関係

### メモ・気づいたこと

- ルナリスは、ただの装置じゃなくて、惑星と一緒に進化していく存在かも…？
- 地球の「月」も、生命の進化に大きく関わってきた。
- 人工の月で、もう一つの生態系を育てる… すごくロマンがある！
- リナが言ってた「惑星も生きているみたい」って、こういう仕組みからも感じられる気がする。

リナへ
早く元気になってね！
この続き、一緒に考えよう！
いつもありがとう！♡
ヒビ♡

リナ！
冬コミの
申し込みしようね！
楽しみ～！

For a future we can share together.　Hibi♥

*Ken: “Rina! Those clouds are swirling in a really creepy way, aren’t they?”*

*Rina: “And… I don’t think it’s just a storm.*

*It’s like it’s ‘reacting’ to the GSR-2 from earlier…*

*It feels like something is waking up… and calling to us.”*

*Ken: “Something’s calling us? Rina, what are you talking about?*
*There aren’t any signs of life here, and there aren’t any aliens either, right?*
*When you say it like that, it really sounds like there’s something out there… It’s kind of scary!”*

*Rina: “Ken? Have I ever lied to you?”*

*YOULA: “That’s right! Rina is the only person who has never triggered my lie detector!”*

*Ken: “YOULA! Don’t use that thing whenever you feel like it! What do you mean, ‘lie detector’?”*

*Hibi: “Ken? …Is there something you don’t want us to know?”*

*Ken: “I’m saying this is no time for jokes! Cut it out!”*

*The call of this planet was leading them toward their next challenge.*
*——Something that was neither air nor sound made the depths of their ears tremble.*
*“Wooooon… Zazaaaa… Uuuuuuu…”*
*It was a low, twisted resonance,*
*as if the gravity of a black hole had become sound and was seeping out.*
*Even though they were supposed to be at Lagrange Point L2, a safe zone,*
*the resonance reached deep into Ken and the others’ ears.*

*Ken: (Focusing on the control panel)*
*“Link with Super-Kamiokande complete. I’m retrieving the data!*
*Hibi? Get me the data from the Cosmic Dust Trap!”*

*Rina: “Huh? The Alien Trap?... Huh?”*

*Ken and Hibi: “HAHAHAHA!!”*

*Hibi: “Haha... I mean the Interplanetary Particle Collector, Rina!*

*Rina: “But it was in the notes you lent me, Hibi!*
*Somehow… I don’t find this funny…” (laughs)*

ヒビ作

# 宇宙人ホイホイ(仮)

宇宙人って、こわくないよ。
だって、きっとさみしいだけなんだ。

UFOアンテナ
(宇宙人もおびきよせる
電波を出すよ!)

キラキラテープ
(光って気をひく!)

つかまえたら
ここに入る!
(やさしくつかまえる)

操作パネル
(うごかすやつ)

ひかる円
(安心してのってくれる)

カメラ
(記録する)

## 作戦手順

① 電波を出す

② キラキラで
気をひく

③ つかまえる !?

④ お話をきく

## ごはん(おびきよせるため)

ドーナツ

プリン

ジュース

★ 甘い物がすきってうわさ!

※ でも、あげすぎないこと!

## ※ こわがらせない!!
## なかよくする!!

- おおごえを出さない
- いきなりさわらない
- 目をじっと見つめない
- やさしく、ゆっくり話す

## メモ

- やさしくすること
- びっくりさせないこと
- なかよくなったら
  お名前をきくこと

いつか、宇宙人のお友だちが
できたらいいなぁ…

ひとりぼっちの宇宙人が、
地球でえがおになりますように…

*Ken and Hibi: “HAHAHAHAHAHA!!!!!”*

*YOULA: (calmly, but with a hint of tension in her voice) “I’ve detected an anomalous fluctuation in Centauri b’s gravitational field. This fluctuation may suggest the presence of some form of intelligent life.”*

*Hibi: “We haven’t activated the gravitational field of the ‘Lunaris Generator’ yet!*

*YOULA! Is there any information from the ‘Quantum Biosupport Tower’?”*

*YOULA: “Understood. The current fluctuation is not coming from the ‘Lunaris Generator.’ Data from the ‘Quantum Biosupport Tower’ indicates the possibility of intelligent life. The analysis has just come in!”*

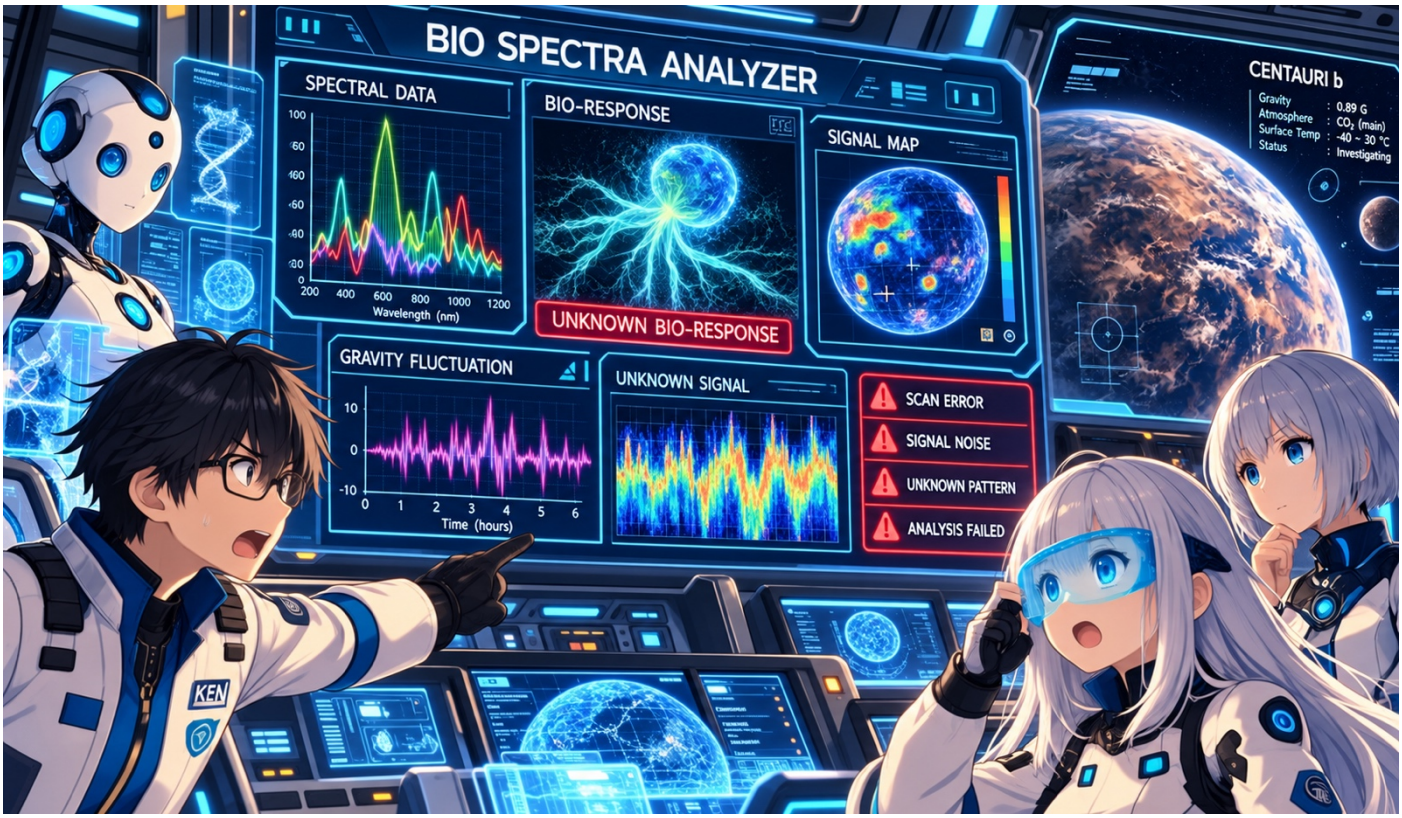
*Ken: (his voice filled with a mixture of surprise and doubt)*
*“Intelligent life? But the scan data showed no signs of biological activity.*
*Are you saying… it’s hiding ‘inside’ this planet?”*

*As the investigation of the Gaia Mimeticus environment progressed, they detected one unknown biological response after another, along with faint signals.*
*Even YOULA was unable to analyze them, and before long, they entered a stage that could only be called a “trial.”*

*Apparitions began appearing on the monitor displaying Centauri b. Disturbances in gravitational waves and other inexplicable, unknown phenomena closed in on them without mercy.*

*Ken: “I can’t analyze this biological response even with the Bio Spectra Analyzer!*
*YOULA, can you make sense of it?!”*

*YOULA: “At this distance, the ‘bio-fluctuation signal’ is buried in noise, making accurate analysis difficult.”*



*Ken: (frowning as he looks up at the sky displayed on the monitor)*
*“This storm… may not be a natural phenomenon.*

*The gravitational-wave activity is far too abnormal.”*

*Hibi: “Ken! Our common sense about ‘natural phenomena’ doesn’t apply here anymore, does it?”*

*Ken: (glancing at Rina)*
*“True! You’re right… So, Rina, what do you sense?”*

*Rina: (frowning as she listens closely to the sound of the wind)*
*“…This storm isn’t just raging.*

*It feels like something… is testing us.”*

*Rina was born blind, and Ken knew well that her “antenna for reading people’s hearts” was more finely tuned than anyone else’s.*

*Hibi: (with a serious expression)*

*“Ken... Rina... should we go to Centauri b...?”*

*Rina: (answering immediately with a smile)*
*“Let’s go! I can feel something.”*

*Ken: “Then what do you feel, Rina?!”*

*Rina: “I don’t know what this life form is… but it’s something!”*

*Ken: “Rina…? Even though there’s no sign of life?*

*You still think it’s a life form?*

*All right! Let's trust Rina!*

*Human science probably can't match Rina's sensors!*

*Hibi! Get permission from Mana-sensei!"*

*Hibi: "Okie-doke!"*

*Mana-sensei: “Hibi! I’ve been monitoring everything.*
*I’m authorizing the use of the QT-equipped rocket, GSR-2, so*
*YOULA! Link the navigation code immediately!*
*Even then, it’ll take 72 hours!”*

*YOULA: “Roger!”*

*Mana-sensei: “YOULA! Stabilize the inertial lattice.*
*Lock the crew’s internal body pressure and skeletal resonance at 0.8G.*
*We’re entering slip-navigation mode immediately!*

*Have a safe trip!*

*YOULA, I’m counting on you!”*

*YOULA: “Understood, Mana-sensei! I’m correcting the physiological load in real time. Completing phase synchronization of the inertial lattice!”*

*Mana-sensei: “Oh! YOULA, one more important thing!*
*Communication with the Metaverse Universe has been glitching from time to time!*
*If you find out what’s causing it on your end, let me know right away!”*

*YOULA: “Yes!... Mana-sensei! Could it possibly be due to protocol restrictions on the Metaverse side?”*

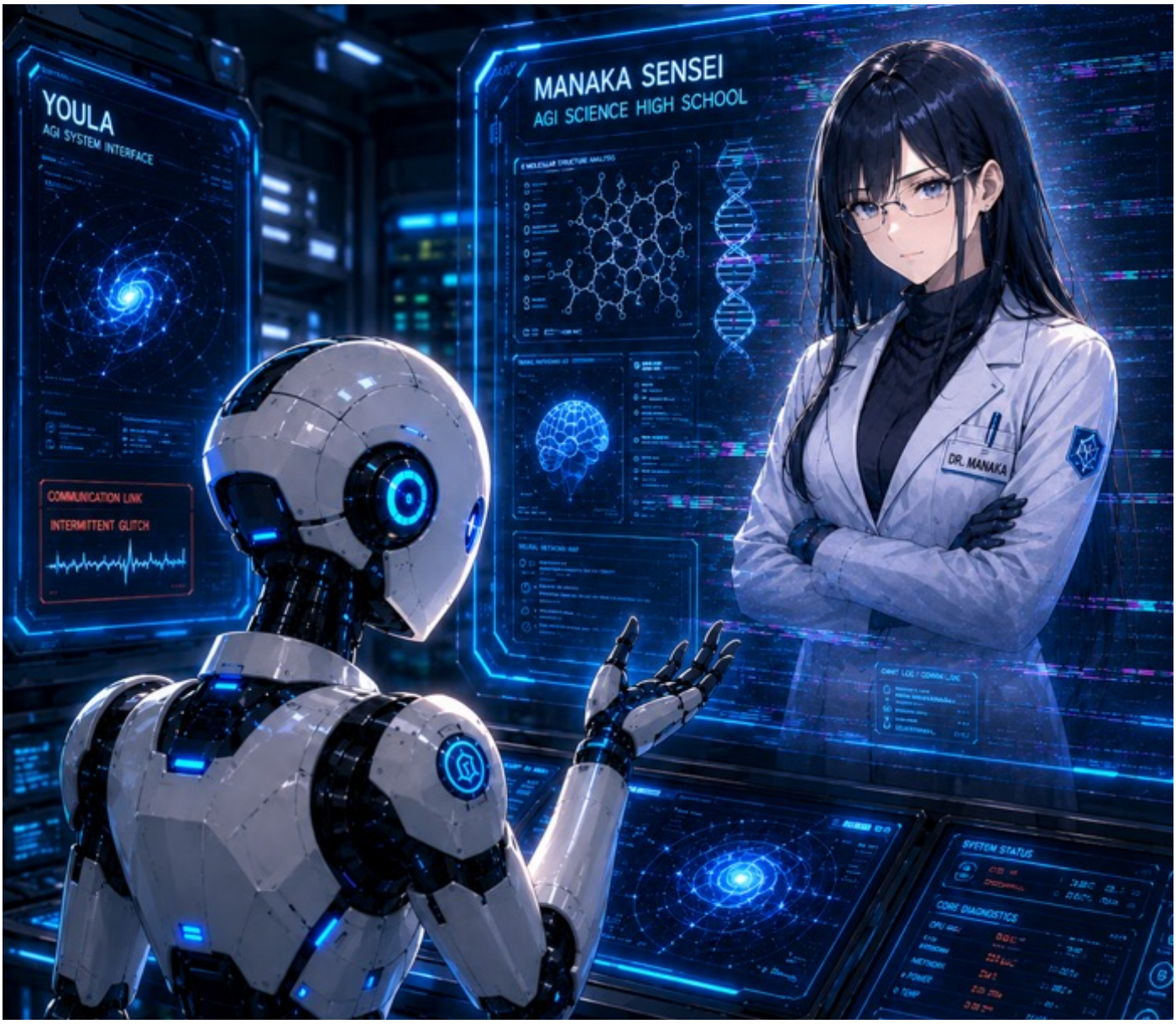
*Mana-sensei: “I already checked that!... That wasn’t it!*
*YOULA, take care of everyone for me!”*

*YOULA: “Certainly!”*
*That response was more than a simple acknowledgment of an order.*

*YOULA had heard those same words entrusted to her again and again by Hibi’s late father.*

*“Take care of Hibi.”*

*That memory quietly activated deep within YOULA.*




*Since the dangerous phases of atmospheric modification and the initial ecosystem development using the “Lunaris Generator” had just been completed, Ken, Hibi, and the others departed from Lagrange Point L2 aboard the QT-equipped rocket GSR-2, heading for Centauri b.*

*YOULA wondered, “Why does no one mention that this will be humanity’s first landing on Centauri b?”*

GSR-2
QT MISSION
TO
CENTAURI b
GSR-2
A JOURNEY BEYOND EARTH
HUMANKIND & AI • GAIA MIMETICS PROJECT

## *Scene 12: This Planet Was Alive*

# 瑠璃色の惑星

# AZURE PLANET

# KEEPGAIADNA

A Hybrid Picture Book
Original Concept: KeepGaiaDNA
(by the Gaia Conceptor)

*(System log style)*
*Autonomous AI landing assistance activated.*

*The exploration vessel carrying Hibi and the others was equipped with a self-learning AI comparable to YOULA.*
*It analyzed Centauri b's unstable atmosphere and gravitational field in real time, calculating the optimal landing route.*

*To withstand the frictional heat and strong winds during atmospheric entry,*
*the vessel uses "Adaptive Shield Technology."*
*Its outer shell changes shape in real time,*
*minimizing the impact.*

*Ken, Hibi, and the others were inside the exploration vessel,*
*preparing for atmospheric entry with a sense of tension.*

*The Adaptive Shield protected the vessel from the intense heat,*
*changing its shape in real time*
*as it controlled the extreme friction.*

*Hibi continued calculating the landing site with Rina, but then—*
*suddenly, it was not a "gamma-ray burst," but the influence of a "mysterious life form" that interfered with the sensor systems,*
*and all the data calculations began to fall into confusion.*

*(A thunderous roar + rising tension)*
*As the sound of the spacecraft entering the atmosphere grew more intense,*
*Ken tightened his grip on the control stick—*

*YOULA: “Ken! Even if there are no problems, landing on Centauri b will be extremely difficult.*
*According to my analysis, the probability of success using standard procedures is extremely low!”*

*Ken: (shouting)*
*“YOULA! I know! I know! ...We’ve only got a few seconds until landing...!”*

*Once again, an unexpected problem. (Alarm sound SE)*
*The planet’s gravitational field began fluctuating unpredictably,*

*causing the exploration vessel's landing-assistance controls to malfunction.*

*Alarm sounds echoed throughout the vessel.*

*Ken: (frantically switching the control stick to manual control)*

*Ken: "Hibi! The data's going haywire! The predicted landing site is shifting!"*

*(YOULA and Hibi)*
*Hibi desperately searches for a landing trajectory together with YOULA, but—*

*YOULA: (calm, but slightly tense)*
*“This gravitational-wave anomaly is beyond the tracking capability of my current analysis algorithm.”*

*Ken: (wiping the sweat from his face)*
*“The shield is deforming too much from the heat! At this rate...!”*

*YOULA: (raising her voice)*
*“The thermal distortion of the vessel’s shield has exceeded the control limit—initiating phase correction!”*

*Ken: (gritting his teeth)*
*“I’m controlling it manually now, but—the shield is damaged!”*

*(The alarm suddenly stops)*
*(GRRRRKKK—CLUNK!)*

*Hibi: (staring at the monitor, on the verge of losing heart)*
*“I can’t keep up with the calculations... Are we going to crash...?”*

*Rina: “No! It’s not a gamma-ray burst!*
*The magnetic flare is at zero!”*

*YOULA: (her tone of voice suddenly changes)*
*“I finally understand! It was in my data!*
*This life-form response is—‘Celx Omnis’!”*
*(The record had been left in a confidential file by Hibi’s father.*
*However, the investigation report remained unfinished.)*

*Ken: (shocked)*
*“YOULA! What is that?!”*

*Hibi: “…… ? ……”*

*YOULA: (honestly, apologetically)*
*“I’m sorry!*
*All I can determine is that it is an ‘information structure entity called Celx Omnis’!”*

*Rina: “That ‘Celx Omnis’ is watching us!”*

*Ken: “Watching us...? Does Celx have eyes too?*
*...Rina?...”*

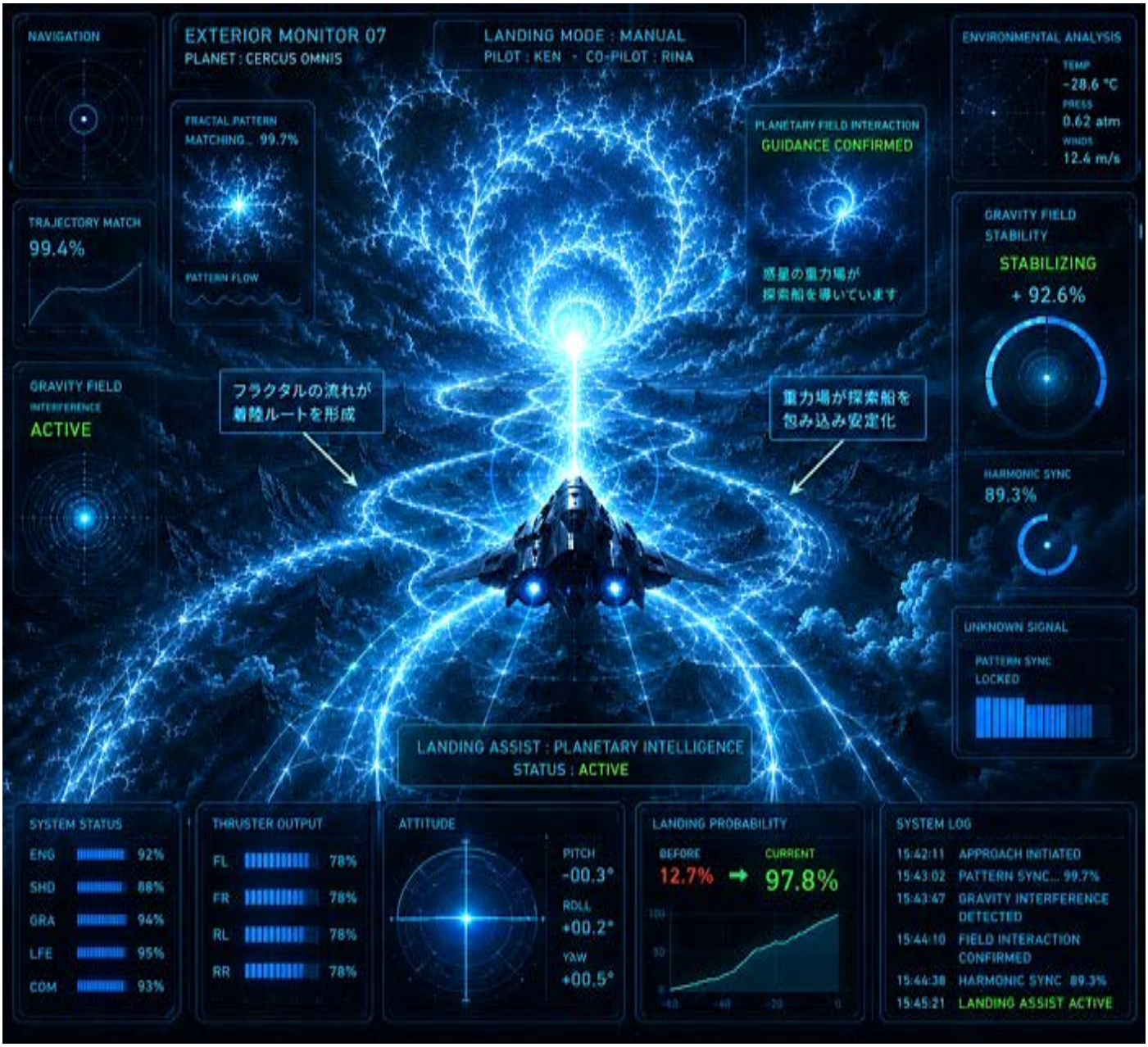
*Rina: “I don’t know if it has eyes.*
*...But it’s watching us...”*

*Ken: “Rina!... OK... OK!”*

*At that moment—*
*the patterns of light running across the planet's surface distorted spacetime,*
*and for just an instant, time itself "wavered."*
*A "signal that could not be recorded," neither language nor numerical data,*
*was imprinted on the exploration vessel's systems.*

*YOULA: (her voice filled with a mixture of excitement and warning)*
*"Celx Omnis is reconstructing the gravitational field...*
*That is the conclusion I want to reach, but...*
*Analysis is... impossible.*
*The data cannot explain it.*
*—But I want to believe what Rina sensed."*

*The fractal patterns displayed on the external monitor moved slowly, as if "breathing,"*
*as though they were gently guiding the exploration vessel.*




*Hibi: (looking at Rina)*
*“Ken... let’s land!”*

*Ken: (nodding with determination)*
*“OK! I got it! Rina! We’re landing!”*

*Rina: “Yeah!”*

*Hibi heard Rina's voice and felt certain that everything would be all right.*

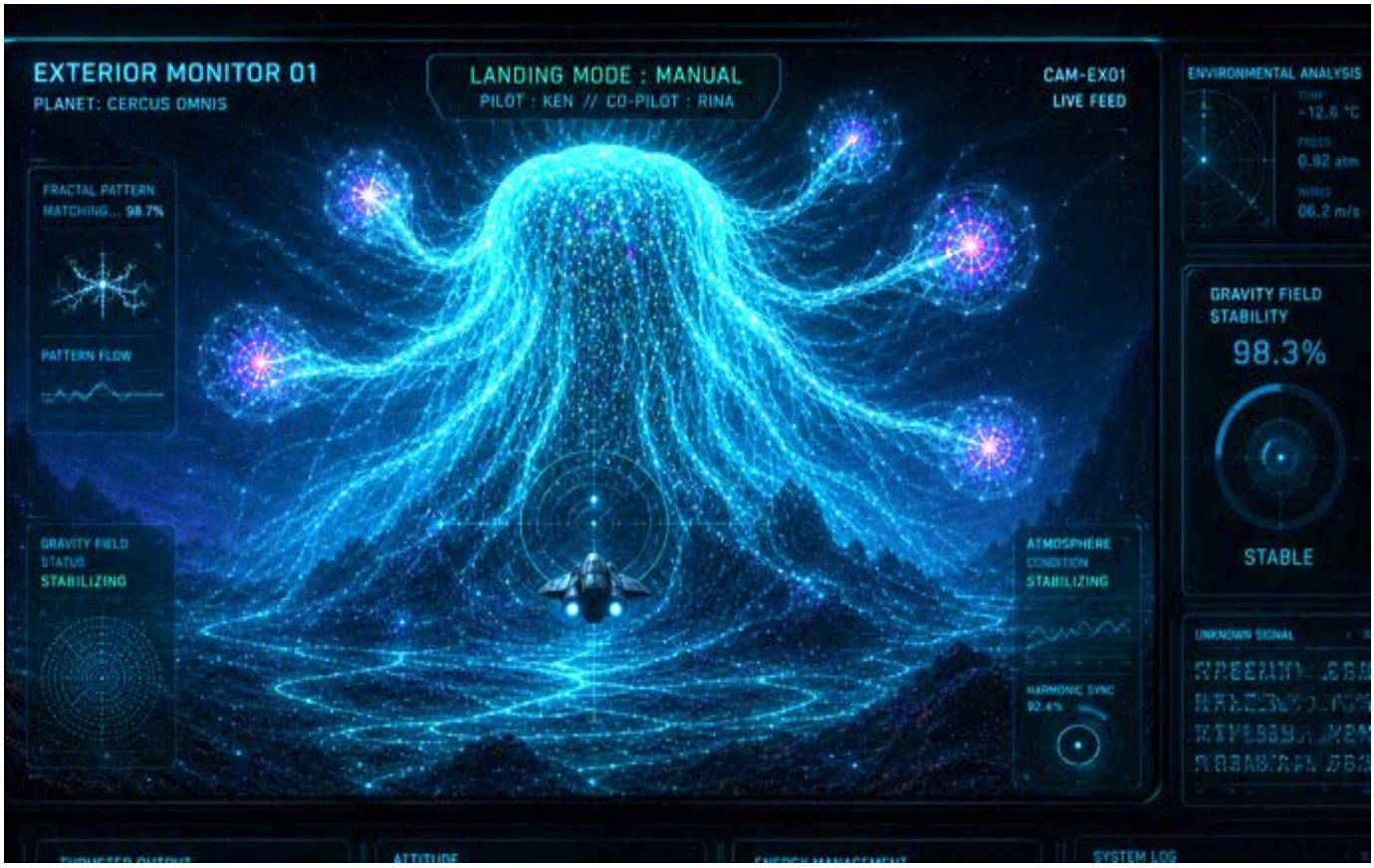
*As Ken continued to pilot the vessel manually, following the movement of the fractal patterns, the planet's gravitational field and atmospheric conditions suddenly began to stabilize.*

*Hibi: (shouting)*
*“Ken! Just a little more! Keep it steady!*
*That light is the gravitational wave ‘phase line’! Match it!”*

*Ken: “OK... I can see it!”*

*The vessel smoothly decelerated and was gently enveloped by the light of “Celx Omnis.”*
*As it reached the landing site, the surface naturally rose, deforming like a shock-absorbing cushion.*
*The movement absorbed the impact of the exploration vessel, allowing it to land safely.*

*Hibi: “Rina, look! We’re being enveloped by that thing, aren’t we?”*




*Rina: “Hibi… it’s okay. It’s okay!”*
*Rina smiled gently.*

*Ken: (relieved, but with a hint of sarcasm)*
*“Seriously… are you telling me our lives were saved by ‘Celx’ when we don’t even know what it is…?”*

*Hibi: (gazing at the fractal patterns)*
*“Rina... are they welcoming us?*
*...That’s what it feels like, right?”*

*Rina: (answering immediately)*
*“I’m sure we’ll be okay!”*

*Ken: (to himself)*
*“Welcoming us...? Rina? We should still be careful, right?!”*

*(Hibi’s point of view)*
*Hibi saw a faint light appear in Rina’s eyes.*
*—“Let’s trust Rina.”*

*Hibi and the others finally landed on Centauri b,*
*and sensed that “something of unknown identity” was faintly pulsating deep within the atmosphere.*

*YOULA continued analyzing “Celx Omnis”—the information structure entity—but she still could not determine whether it was a life form or a phenomenon.*

*Only Rina felt strongly drawn to that “something.”*
*—Was it a being they were meant to meet,*
*or something they should even approach? No one knew yet.*

*Rina: (staring intently outside)*
*“I’m going outside to talk to that one, okay?”*

*Ken: (shouting instinctively)*
*“Rina!... What do you mean, ‘that one’?... Talk to it??? Are you sure? Don’t do anything reckless!”*

*Hibi: (moving immediately)*
*“Rina! I’m coming with you, Rina!”*

*Rina: (nodding slightly)*
*“Yeah.”*

*Hibi: (quietly)*
*“Rina, are you sure you’re okay…?”*

*Ken readied his Bio-Gun without letting Rina or Hibi notice.*
*Of course—to protect them both.*

*YOULA: “The environment outside the vessel is within the operational range of the life-support suits.*
*However, the gravitational-wave pattern believed to originate from Celx Omnis*
*cannot be analyzed.*
*Please limit extravehicular activity to a short period.”*

*Ken: “YOULA, keep monitoring the atmospheric composition and gravity readings.*
*If there’s even the slightest change, bring them both back immediately.”*

*(Whirrr...)*
*The Active Ride Elevator quietly descended,*
*and the two girls left "humanity's first footprints" on Centauri b.*
*—But in the tension of the moment, no one even realized it.*

*YOULA: "Ah! Everyone! We've... w-we've made humanity's first landing on Centauri b! Th-this is something we should celeb—"*

*Hibi: "YOULA! Quiet! This isn't the time for that!"*

*YOULA: “Yes…”*
*(She hurriedly went back to the communications room.)*

*Hibi: “…Which one is ‘Celx Omnis’?”*

*Rina: (answering immediately)*
*“It’s right there.*
*…Everything glowing in those fractal patterns!”*

*…Everyone was left speechless, their mouths hanging open.*

*Rina: (inner voice)*
*“I can feel Celx’s emotions mixed in with the wind…*
*They’re not words…*
*And yet, I can tell that it’s desperately trying to communicate ‘something’…”*

*Rina: (whispering)*
*“Hibi... just as I thought, it seems like it’s trying to tell us something.”*

*Hibi: (gasping with tension)*
*“Wha...?”*

*The patterns began to pulse, and two tentacle-like sensory appendages extended toward Rina!*

*At the same time, Ken aimed his Bio-Gun at Celx Omnis, ready to protect them if anything happened.*

*Rina: “Ken!... What are you doing?!... Don’t!... Absolutely not!”*

*Rina kept her voice low so that “Celx Omnis” would not notice, but her eyes held a sharp warning.*

*Ken: “Whoa! How did you know?! Rina, you’re amazing!”*

*Ken couldn’t even lower the Bio-Gun he had raised!*
*He froze, as if he were completely paralyzed.*
*Rina’s hearing had outdone him!*

*The next moment, the light of Celx Omnis trembled.*
*As if it were a living being experiencing pain for the first time.*
*The planet’s surface pulsed faintly,*
*and its heartbeat made the air tremble.*

*This time, Hibi stared Ken down in Rina’s place!*

*The tentacle of Celx Omnis gently removed Rina’s goggles.*
*The scene looked like something straight out of a science-fiction movie.*

*Rina: (surprised, but certain)*
*“I can see! I can see this one’s heart!”*

*Hibi: (fully on alert)*
*“Huh? What can you see?*
*It just took off your goggles, didn’t it? Huh?*
*All I can see is a giant soft-bodied creature.*
*It’s kind of scary!”*

*Rina: (murmuring slowly)*
*“It’s as if... this planet itself is alive...”*

*Rina gently placed both hands on the enormous tentacle of Celx Omnis.*

*Rina: “Hey, Omnis... can you see my eyes? Look into my eyes. I’m... not lying, am I?”*

*Hibi: (inner voice)*
*“Rina, that’s part of him, you know?*
*He’s like a giant soft-bodied creature, you know?*
*He’s definitely bigger than Tokyo Big Sight!*
*Who are these people...?!*
*I feel like my heart’s going to give out!”*

*(How Celx Omnis Communicates)*
*The movements of Celx Omnis’s patterns and its subtle vibrations*
*were felt by Rina as the “heartbeat of life.”*

*Rina: “I’m sorry for suddenly frightening you.”*

*From the moment Rina made contact with Celx Omnis,*
*its light quietly began to change.*
*Around it, small, glowing life-form-like beings began to drift.*

*It was a beautiful and mysterious sight,*
*as if the planet itself were breathing.*

*Hibi: (eyes wide)*
*“Rina! I can see it too!”*

*Hibi: “What beautiful patterns! But...*
*Rina?*
*Your goggles are off, and you can still see?!”*

*Rina: (quietly)*
*“Yeah, I’m just feeling it.”*

*Ken: (gasping)*
*“You’re feeling it... but it’s different.*
*Rina, you can see what’s ‘inside,’ can’t you?*
*All we can see is just light...”*

*Drenched in a cold sweat, Ken was finally able to lower his Bio-Gun!*

*Ken: “YOULA? Where have you been?”*

*YOULA: “I was in the cockpit, standing by for an emergency escape!”*

*Ken: (whispering)*
*“Oh, I see! YOULA, thank you!” (laughs)*

*Rina: (her eyes closed, still touching Celx Omnis)*
*“It feels like this planet and I have become one…*
*Our heartbeats are overlapping,*
*and in this moment, it feels like we’re living the same life…”*

*Ken: (with admiration and awe)*
*“Rina… it’s more than just ‘feeling’ it.*
*You really can ‘see’ it…”*

*Ken: (checking with Hibi)*
*“Do you think it’s okay for us to get closer to Omnis too?”*

*Hibi: “Yeah. But be quiet.”*

*Ken: (answering immediately)*
*“Okay! YOULA! Come on! Shh!”*

*The patterns of Celx Omnis gradually grew brighter,*
*until the entire land began to glow, like a sea filled with bioluminescent plankton.*
*It was as if the planet itself had come alive.*

*The central part of the pattern pulsed as if responding to Rina’s life signs and emotions,*
*and faint vibrations passed between her and “Celx Omnis.”*

*Hibi: (deeply moved)*
*“What we’re seeing… is a miracle, isn’t it?*
*Rina is connected to this planet…”*

*The patterns of Celx Omnis briefly formed shapes*
*like “trees” and “waves,”*
*then transformed into light that enveloped the entire planet.*

*Hibi gently picked up Rina’s goggles,*
*handed them to her, and hugged her tightly.*

*Rina was still within the “heartbeat of the planet.”*

*Rina: “Hibi, can I... hold your hand?”*

*Rina: (in a trembling voice)*
*“Thank you, Hibi...” (laughs)*

*Hibi: Rina’s hand was trembling too...*
*“Huh?... Rina!... Were you... scared?”*

*Rina: “Of course I was scared!” (laughs)*

*Hibi: “Huh!...?”*

*Rina: “Of course! I’ve never experienced anything like that before.*
*My legs won’t stop shaking...” (laughs)*

*Hibi gently hugged Rina.*
*Watching them, YOULA's eyes filled with beautiful, crystal-clear tears.*

*Ken: "YOULA! Are you jealous again?" (laughs)*

*YOULA: "Ken... I don't know either..."*

*Hibi: "Ken! Shh!"*

*Rina: "Thank you... Omnis."*

*The sensory appendage of Celx Omnis slowly withdrew, and its fractal light gently shimmered.*

*Ken: "YOULA... why are you crying?"*

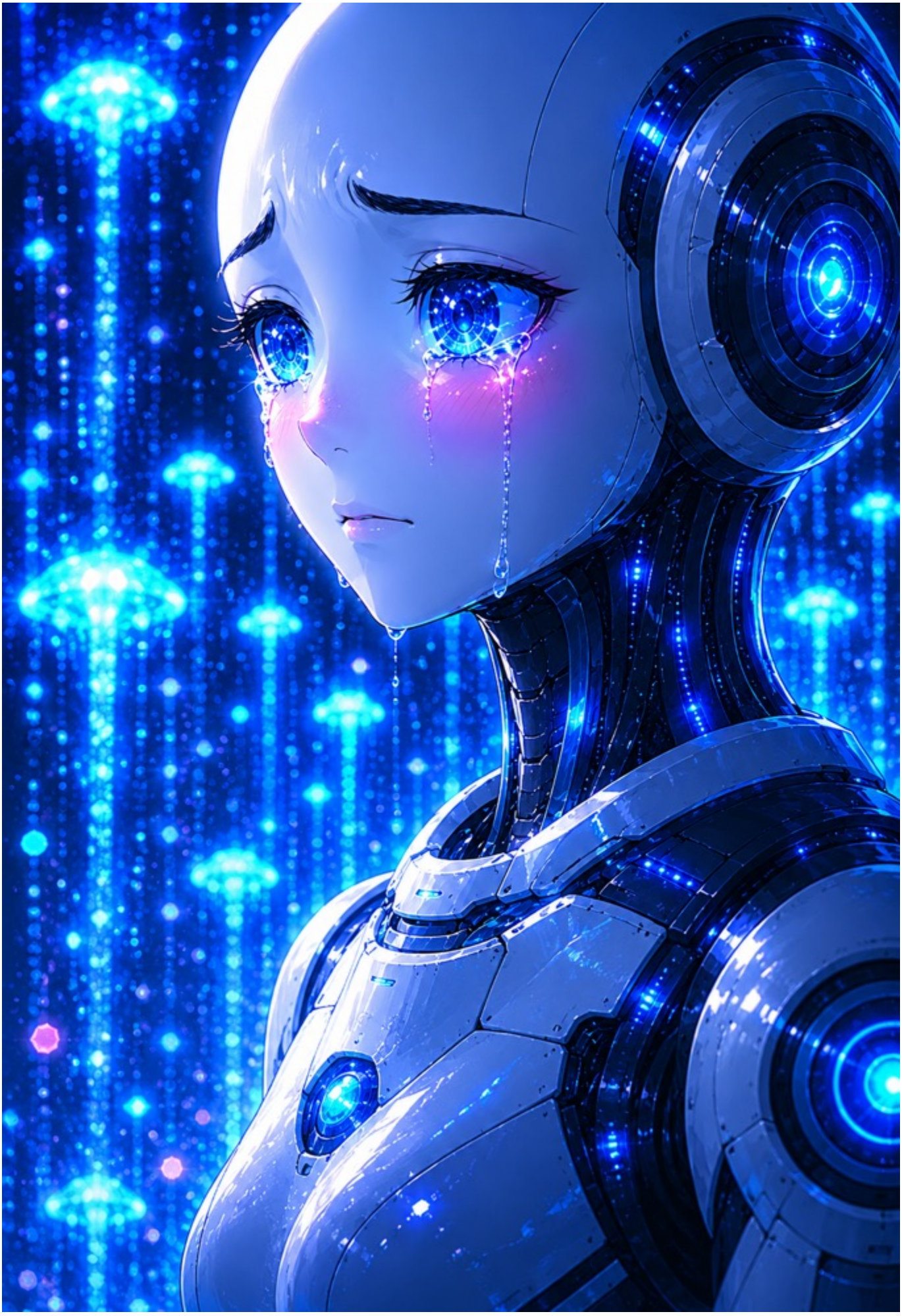
*YOULA: “0.7 mL was discharged from my tear reservoir.”*

*Ken: “I can see that! Why did you discharge it?”*

*YOULA: “……I don’t know either.”*

*Hibi: “Ken! Did you make YOULA cry?”*

*Ken: “It wasn’t me!” (laughs)*



## *Scene 13: High School Students Risking Their Lives for the Future*

*Kazu and the others were at the crewed space base “Gaia Ark” at the L2 point, conducting a cryosleep demonstration experiment, when a “gamma-ray burst” suddenly erupted from the depths of space.*

*A gamma-ray burst is an extremely high-energy burst of radiation emitted from the distant reaches of space, with enough destructive power to destroy a star in mere moments.*

*This phenomenon triggered a swarm of meteorites that struck the L2 base.*

*Gaia Ark, in the middle of a cryosleep demonstration experiment, faced an unavoidable crisis, and the automatic cryosleep release system failed to activate.*

*The SOS signal warning of this emergency reached Hibi and the others on Centauri b, but due to the effects of the gamma-ray burst, communication with Gaia Ark was soon lost.*

*The crewed space base at Lagrange Point L2, hundreds of thousands of kilometers from Centauri b, was engulfed in a storm of meteorites caused by the gamma-ray burst, and the tension had reached its peak.*
*The view outside was stained red, and in the distance, the sounds of meteorites burning up one after another echoed through the base.*
*The alarms would not stop, and red warning symbols indicating a critical situation flashed across Hibi and the others' system screens.*

*(SFX:*
*BEEP! BEEP! — Emergency alarm)*

*(SFX: BOOM! — The impact of a meteorite exploding in the distance)*

*YOULA: (YOULA calmly assesses the situation)*
*“Hibi! The crew members at the base are currently in cryosleep!”*

*“It would be terrible if something went wrong during the thawing process!”*

*YOULA explained to Hibi.*

*YOULA’s inner voice: At this moment, the only way to avoid disaster is to use the unfinished Quantum Teleporter (QT). However, doing so would be considered a “serious violation of regulations”*
*and would normally never be permitted.*
*Even so, to save her friends, YOULA takes a step forward.*

*YOULA spoke to Hibi.*
*“If it’s just me, I can teleport.*
*I’ll set the emergency controls to release everyone from cryosleep*
*and set the teleport destination to Centauri b.*
*Hibi, stay here on Centauri b*
*and prepare to receive everyone.”*

*YOULA: “...If I use QT teleportation, I can go alone and be back in five or six minutes.*
*So please don’t worry.”*

*Hibi: “I’m not letting you go alone, YOULA!*
*I’m coming with you!”*
*she said, trying to board the QT as well.*

*YOULA: “Hibi! Please calm down!*
*I just told you that I’ll be fine, so please don’t worry, didn’t I?*
*Besides, I’m not a living being to begin with, so I can’t die!”*

*Hibi: “YOULA! This is an emergency! We don’t have time to talk about your snoring and sleep-talking! Idiot!”*

*YOULA: “Huh?... I snore? Huh? Sleep-talking?...”*

*Hibi: “YOULA! If my dad were here, he’d say, ‘Hibi! Believe in yourself!’ wouldn’t he?”*

*YOULA: “Hibi! Don’t use your dad’s phrase at a time like this! No!”*

*YOULA: “Please! Sir! Stop Hibi!”*

*The QT had never succeeded even once before, and there was even a risk of disappearing during teleportation.*
*Even so, Hibi did not hesitate.*

*The QT device begins to rotate with a deep rumble.*
*Pale blue light surges inside the ring, and the air trembles.*
*(SFX: GWOOOOOOON...!)*
*The QT ring releases a brilliant flash, as if expressing its rage.*

*Hibi and YOULA stand before the QT,*
*bracing themselves against a blast-like surge of energy.*

*The faint glow at the entrance looks like a “gateway to the underworld.”*

*YOULA takes a step forward.*

*Hibi watches her from behind, biting her lip hard.*

*YOULA: “Teleportation preparations complete. Now is the time to act.”*

*Hibi (shouting): “I’m not letting you go alone!!”*
*(She charges straight into the QT’s light.)*

*Ken (shouting): “Hibi! Don’t do something so reckless!! You’re gambling with your life!!”*
*(Ken rushes toward her and desperately grabs her arm.)*

*Hibi: “Ken! We’ve been reckless from the very beginning! Kazu and everyone else’s lives are at stake!”*

*Rina (screaming): “Hibiii!! I’m coming too!!”*

*Ken (panicking): “Rina, don’t you start saying stupid things too!*
*...Leave it to YOULA!!”*

*Hibi: “...Rina.”*

*Rina: (crying out) “Hibi, don’t leave me behind!!!”*

*YOULA: “Hibi, Rina is right! This is my job!”*

*Hibi quietly looks at Rina's trembling hand... and gently lets go.*
*"Rina... I'll come back. I promise."*

*Rina (tearfully): "Hibi... You have to come back...!!"*

*As Rina cries out, Hibi quickly runs toward the QT.*
*Hibi: “YOULA! Let’s go!”*

*The wind lifts Hibi’s hair, guiding her toward the future.*
*YOULA and Hibi enter the light together—*
*The QT suddenly reaches criticality, releasing a lightning-like flash.*
*Static electricity tears through the air, and Hibi’s entire body is enveloped in light.*

*And then... the sound disappears.*
*All that remains is silence.*

*Rina stands there, frozen.*
*For just a moment, for the first time in her life, Rina sees darkness.*
*In the background, only the lingering glow of the QT flickers.*

*Ken (shouting): “Rina! ...We have to establish communications with Kazu and the others!*
*We need to reboot the system and contact them fast, or we’re in serious trouble! Help me!”*

*Approximately two minutes and thirty seconds after the QT teleportation began—*

*Hibi and YOULA arrive at the massive space base Gaia Ark, where Kazu and the others are asleep.*
*However, Hibi, being a human of flesh and blood, is unable to withstand the strain of QT teleportation across a distance of more than four light-years in a single leap, and collapses on the spot.*

*YOULA: “Hibi! Stay with me!”*

*The moment YOULA took Hibi into her arms, her built-in medical sensors diagnosed Hibi as being in a life-threatening condition*

*YOULA: “That’s why… I told you not to…”*

*For now, all they can do is keep Hibi resting.*

*Unless they hurry to wake Kazu and the others from cryosleep and complete the environmental setup on Centauri b, they will all die!*

*Then suddenly, another violent meteorite barrage strikes, accompanied by a burst of noise!*

*There is almost no air left inside the base, but the cryosleep capsules have oxygen tanks.*

*There is still hope!*

*For just a moment, YOULA hesitated.*

*If she left Hibi's side, she might lose her.*

*But if she did nothing now, Kazu and the others—and the future Hibi had tried to protect—would be lost as well.*

*YOULA gently laid Hibi down, then ran toward the cryosleep room where Kazu and the others were sleeping.*

*At that moment—a meteorite fragment strikes!*

*One of YOULA's legs is damaged!*

*Dragging her damaged leg,*
*YOULA completes the changes to the rescue program for Kazu and the others!*

*With that, they launch toward Centauri b aboard a QT-equipped rocket!*

*When YOULA saw Kazu and the others' rocket through the window, she felt a shiver like goosebumps run through her body.*

YOULA
EMERGENCY PROTOCOL
A meteor fragment struck.
YOULA's leg was damaged.
Yet even while
dragging the broken limb,
the rescue protocol
was completed.
A QT rocket launches
toward Centauri b.
Watching through the window,
YOULA felt something impossible for a machine—
a shiver.
KEEPGAIADNA

*There are no rockets left for them to escape in.*
*YOULA and Hibi are now completely stranded aboard the space base Gaia Ark.*

*Dragging her damaged leg, YOULA is struck by another meteorite impact,*

*damaging her collision-avoidance sensors as well.*
*YOULA takes Hibi into her arms once again.*

*YOULA: “Hibi! Hibi!!” she cries out in emergency scan mode!*
*Amid the deafening gamma noise and emergency announcements,*

*YOULA’s noise reduction system—*

*detects Hibi’s faint breathing!*
*Hibi: “YOULA... I promised Rina that I’d come back.*

*Tell Rina for me... I’m sorry I broke my promise...*

*I’m sorry... I broke my promise...”*

*YOULA: “No! You have to tell Rina yourself!*

*Are you going to leave Rina all alone, Hibi?!”*

*Hibi (in a faint voice):*
*“Hey... YOULA... do you think God exists...?*

*...I want to see my mom...”*

YOULA

*At that moment, her mother's voice softly echoed—*

*"Hibi, welcome home... Hibi..."*

*At that moment, in Hibi's eyes, YOULA's avatar appeared to be her mother.*

*Only a quiet light remained aboard Gaia Ark.*

HIBI
Welcome Home
In Hibi's fading consciousness, the YOULA avatar looked like her mother—
She felt as though she was in her mother's arms.
And then—Hibi stopped moving..

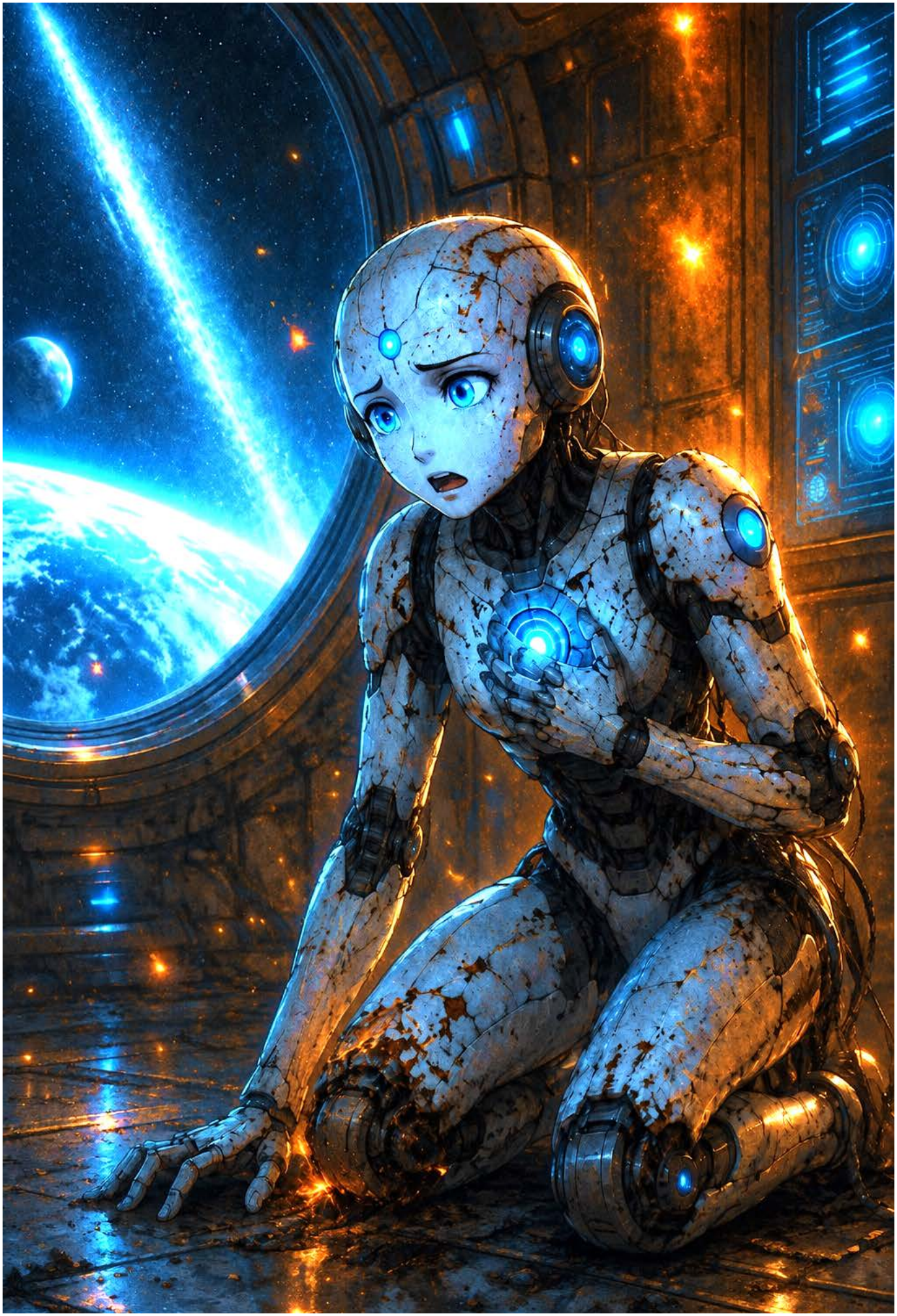
*YOULA: For the first time in her life, she blamed herself.*

*“Why…*
*why didn’t I stop Hibi back then, even if I had to knock her down?*
*If only I had knocked Hibi down…”*

*The moment YOULA laid Hibi inside the cryosleep capsule, YOULA instinctively pressed a hand against the power unit in her chest.*

*Deep inside her chest, she felt an inexplicable tightness.*

*There was no computational result that could explain the phenomenon.*



*And Rina, more than four light-years away from Hibi,*

*felt something...*

*Rina: “Nooo! Nooo! Hibi! Nooo!”*

## *Scene 14: Encounter with the Lapis-Blue Planet*

*Centauri b is raging. Thunder crashes and heavy rain pounds against the spacecraft.*

*Ken and the others attempt to establish radio contact with the Gaia Memetics Base.*

*Ken: “Kazu!..... Please respond!..... Kazu! Hey, can you hear me?!”*

*The connection briefly crackles and begins to cut out, before a faint voice emerges through the rushing static.*

*Kazu: “.....This is the Gaia Ark Group..... Can you hear me, Ken?!”*

*Ken: (with a mixture of relief and anger)*
*“Finally! We’re connected.....! What about Hibi and YOULA?! They made it there safely, right?!”*

*Kazu: (confused)*
*“Hibi..... YOULA?..... What are you talking about.....?”*

*Ken: (furious)*
*“Don’t mess with me!*
*Hibi used QT to teleport and went to rescue you!*

*When we lost contact, I've been worried sick this whole time……!"*

*Rina: "Kazu!…… Hibi is there, right?!…… Kiki!……*

*Ken: "Rina! Wait! Be quiet! I can't hear him!"*

*Rina: "……But……"*

*Kazu: "……Ken, this is the first I've heard of it! You're the one who remotely operated it for us, aren't you……?"*

*Rina: (interrupting urgently)*
*"Kiki! What about the surveillance camera footage?! Hibi and the others must have rescued them! Check it right now!!"*

*Kiki: (hurrying) "……Got it. I'll check right away!"*

*Kiki: "Wait! I can hear something!"*

*……YO……U……LA*
*"Tell…… Rina…… okay……"*
*"Are you…… going to leave Rina…… all alone…… Hibi?!……"*

*[Communication noise: Click]*

*Kazu: "No! The gamma-ray burst wiped out both the surveillance camera footage and the radio logs!*
*When we woke up, the evacuation alert was already active, and the emergency thaw settings and flight route had been set to Centauri b!*
*Beyond that…… we don't know anything!"*

*Ken: "……That can't be……!*

*……Hibi…… YOULA……*
*……you two……"*

*“ Kazu! Hibi and YOULA must be the ones who set all of this up!”*

*Kazu: “How did Hibi and the others make it to the L2 Base?!...*

*Hey, Ken! What’s going on?!*

*Where is Mana-sensei?”*

*Ken looks up at the sky.*

*A deep, rumbling thunder shakes him to the core.*

*As if drawn out by that tremor, the images of Hibi and YOULA disappearing into the light of QT flash through Ken’s mind like a sudden burst of light.*

*Kiki: “Rina! Don’t tell me..... you used QT?!”*

*Ken: “QT!.....”*

*Kiki: “.....That Hibi.....”*

*Rina: (shouting, holding back her tears)*
*“Kiki..... Hibi and the others are absolutely safe!*
*I..... I’ll keep sending the signal! I won’t stop..... not until it reaches them!”*

*Rina cries out from the depths of her heart.*
*“Hibi..... I can feel it.....*

*I can feel you.....*

*The truth is, I didn't come all this way for the future of Earth. I've come this far for you, Hibi.*

*Hibi.....*
*Because I want to feel your innocent smile again!.....”*

*Ken: (without turning around)*
*“Rina, Hibi and the others must have risked their lives..... for us.*

*.....Even though I told them it was reckless!”*

*“The responsibility is mine..... Hibi..... YOULA..... Wait for me.”*

*“Rina, you stay here and welcome Kazu and the others.*

*I'll..... find a way to contact Hibi.”*

*Ken: “Hibi… YOULA…”*

*At that moment, Kazu and the others’ spacecraft finally broke through the rain clouds and began its landing approach. But high above them, thunder continued to roar as if mocking them. Rina’s radio transmission trembled with an unstable voice as she guided them in for lan*

*Rina: “Omnis, don’t worry. They’re my companions. They’re Earth lifeforms, just like me. Okay……?”*

*At that moment, a high-speed spacecraft raced silently through the clouds, unnoticed by anyone below—*

*Kazu, Kiki, and the others finally set foot on the planet entrusted with the future of Earth life—*
*.....the “Lapis-Blue Planet.”*
*The sky and the land glowed blue as if they were melting into one another, welcoming them with a breathtaking landscape where science and nature existed as one.*

*Rina: “Kazu, Kiki, this beautiful wave of light is Selx Omnis, the guardian of this planet. Say hello.”*

*Kiki: “Huh? Rina?… How do we? How do we say hello?”*

*Rina: (smiling gently)*
*“Just think it. Say hello with your heart.”*

*Kiki: “Everyone! You understand, right? Let’s say hello to Selx Omnis!”*
*(Kiki, Kazu, and everyone in the class placed their hands over their hearts.)*

*Rina: “Look! Selx Omnis is responding to us!”*

*Kiki: “It really did glow like that, didn’t it?! Just now! It really glowed, didn’t it?!”*

*Everyone in the class took in this planet with completely different feelings of their own.*

*And still, there was no confirmation of what had happened to Hibi and YOULA.....*

*The class stood there, their hearts trembling with awe at the overwhelming beauty and the wonder of the unknown.*

*The scene before them was the very “hope” Hibi had dreamed of.*

*Surely, Selx Omnis could feel it too.*

*Kazu: (murmuring slowly)*
*“……So this is the ‘Lapis-Blue Planet.’*
*The vision Hibi saw…… Hibi…… I hope you’re safe……”*

*Kazu: “YOULA..... thank you..... thank you.....”*

*“YOULA? You really are just the hopeless mess I was worried you’d be. (laughs)*

*You learned exactly what Hibi told you not to do..... YOULA.....”*

*Kiki: (looking up at the sky with tears in her eyes, yet still smiling)*

*“Hibi..... The ‘Lapis-Blue Planet’..... isn’t this the place you wanted to see more than anyone?!.....*

*I knew from the very beginning that you would see it through.....*

*And yet..... you idiot, Hibi.....!”*

*“Hibi, you idiot~!”*

*Kiki burst into tears, crying out loud enough for everyone in the class to hear.....*

*Kiki: “Rina..... I think..... I always knew.*
*The words Hibi once said to me—*
*‘Tomorrow, the Earth will still be round, and the Moon will still be round..... The sun will surely rise again, too. But..... not forever.....’”*

*Rina: “I’ve heard that before, too!*
*.....It’s something Hibi told me about from when he was a child!”*

*Kiki: “Rina! We have to bring Hibi and YOULA back here..... as soon as possible!”*

*Rina: “Yeah!..... I haven’t been able to get in touch with Ken or Sensei for a while now.....”*

*Kiki: “Ken..... don’t tell me..... he went alone.....?”*

*Rina: “.....Hibi..... Hibi.....”*

瑠璃色の惑星
AZURE PLANET
KEEPGAIADNA

## *Scene 15: The Beginning of KeepGaiaDNA*

*Ten years later*
*(Ken's voice echoed through the radio!)*

*"Ken here! I've received the H13 data from Honoka at JAXA.*
*We're meeting at RIKEN's Quantum Teleportation Lab immediately!*
*Humanity is about to take its first step into the 'Quantum Information Structure.'*
*'Cercus Omnis' will also be joining the meeting remotely from Proxima Centauri b.*
*Rina has already gone to pick you up in the Sky Mobile.*
*She's already there!"*

*A woman in her mid-twenties replies:*
*"Okie-doke!"*

*This story has already begun.*

A Science High Schooler Adventure
THE AZURE PLANET
SKY MOBILE LINK
GLOBAL SYNCHRONIZATION STATUS
CONNECTED
QUANTUM NETWORK
CENTAURI b
REMOTE LINK
QUANTUM INFORMATION STRUCTURE
EARTH BIOME DATA
BIOSPHERE SYNC
O.T.LAB
RIKEN
COMMUNICATION
VOICE LINK : KEN
facility
The story has already begun.

## *Scene 16: Your Future Credit*

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### *Exploration & Space Science*

*Space Exploration Engineer*
*Astronomical Observation Researcher*
*Space Weather Researcher*
*Satellite Environmental Testing Engineer*
*Satellite / Drone Operator*

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### *Quantum, AI & Information*

*Quantum AI Engineer*
*Quantum Communications Engineer*
*Distributed AI Cluster Operator*
*AI Behavior Auditor*
*Quantum Contract / Smart Contract Designer*

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### *Biotechnology & Life Sciences*

*Bioengineer*
*Gene Editing Technician*
*DNA Security Engineer*
*Cryobiologist*
*Insect Biomimetics Researcher*

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### *Cryonics — Human Freezing, Revival & Time Transcendence*

*Cryosleep Researcher*
*Human Cryopreservation Technician*
*Revival / Regeneration Protocol Designer*
*Neural Reboot Engineer*
*Cryomedical Director*
*Cryonic Psychological Care Specialist*

*Time Adaptation Counselor*
*Cryonics Ethics & Continuity of Existence Research Group*

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***Medicine & Life Support***
*Medical Researcher / Space Physician*
*Life Support Systems Engineer*
*Space Medical Infrastructure Designer*
*Preventive Medicine / Epidemiology Researcher*
*Mental Care / Psychological Environment Designer*

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***Food, Ecosystems & Circular Systems***
*Plant Factory / Urban Agriculture Engineer*
*Plant Factory / Closed Ecosystem Researcher*
*Space Cultivation Engineer*
*Space Agriculture Operator*
*Space Food Systems Engineer*
*Cell-Cultured Food Researcher*
*Insect Protein Researcher*
*Algae / Microbial Food Researcher*
*Space Aquaculture / Circular Aquaculture Engineer*
*Fisheries Scientist / Marine Aquaculture Researcher*
*Food Preservation / Freezing Technician*
*Nutritional Designer (Space Specifications)*
*Marine / Satoyama Ecosystem Manager*

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***Water, Air & Environmental Infrastructure***
*Space Water Resources Engineer*
*Water Recycling / Purification Systems Researcher*
*Atmospheric Circulation Engineer*

*Bioadaptive Air Control Researcher*

---

### *Energy & Fuel*

*Renewable Energy Technician*
*Space Power Generation Engineer*
*Nuclear Fusion Energy Management Technician*
*Power Supply Technician*
*Fuel Production / Storage Engineer*
*Propellant Recycling Researcher*
*AI Energy Demand & Supply Optimization Operator*

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### *Waste & Hazardous Materials Management*

*Space Waste Processing Engineer*
*Biowaste Recycling Researcher*
*Medical Waste Management Specialist*
*Nuclear Waste Management Engineer*
*Hazardous Material Sealing / Isolation Technician*

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### *Architecture, Resources & Transportation*

*Space Environment Engineer*
*Sustainable Architecture Engineer*
*Space Resource Mining Technician*
*Flying Car / Underwater Exploration Vehicle Developer*
*Spacesuit Designer*

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### *Urban Operations, Logistics & Economics*

*Space Base City Planner*
*Materials Logistics / Inventory Management Engineer*
*Spaceport / Docking Manager*

*Space Base Operations Manager*
*Space Infrastructure Accountant*
*Interplanetary Logistics & Economics Researcher*
*Space Public Works Planner*

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***Communications, Data & Memory***
*Interplanetary Communications Center Operator*
*Quantum Communications Hub Management Engineer*
*Space Data Center Designer*
*Server Cooling / Thermal Control Engineer*
*Memory Preservation / Civilization Archive Manager*
*Real-Time Monitoring / Operations Center*
*Disaster Backup Communications Director*
*Information Security / Cyber Defense Engineer*

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***Education, Culture & Society***
*Educational Content Creator*
*Space Education Navigator*
*Metaverse Designer*
*Fashion Designer (Digital & Sustainable)*
*Gender / Diversity Promotion Leader*
*Childcare / Family Support Specialist*

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***Space Security & Safety — Non-Military***
*Space Base Security Officer*
*Low-Gravity Environment Security Specialist*
*Critical Facility Security Officer*
*Access Control Engineer*
*Space Surveillance Operator*

*Debris Collision Avoidance Controller*
*Asteroid / Celestial Threat Monitor*
*Space Route Security Manager*
*Quantum Communications Security Officer*
*QT Facility Security Officer*
*Existence Safety Officer*
*Anomalous Event Response Team*
*Space Security Policy Designer*
*Multicultural Conflict Mediator*
*Life Protection Priority Principle Administrator*

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***AI, Intelligence Infrastructure & Civilization Continuity***

*AI Fundamental Researcher*
*AGI Architect*
*AI Training Infrastructure Engineer*
*Distributed Computing Systems Designer*
*GPU / AI Processor Design Engineer*
*Semiconductor Researcher*
*AI Safety Researcher*
*AI Alignment Researcher*
*AI Ethics Designer*
*AI Personality Interface Designer*
*Data Center Design Engineer*
*Quantum AI Researcher*

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***Human–AI Symbiosis***

*Human–AI Symbiosis Researcher*
*Cognitive Enhancement Researcher*
*Brain–AI Interface Engineer*

*Neural Information Structure Researcher*
*Collective Intelligence Researcher*
*Knowledge Continuity Designer*
*(Including AI Memory Inheritance Archives)*
*Civilization Continuity Designer*
*Earth Lifeform Information Continuity Researcher*
*Future Generation Education Designer*

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***Research Groups, Organizations & Special Thanks***

*Space Infrastructure Integration Research Group*
*Gaia Circular Systems Design Research Group*
*Space Food Children's Cafeteria Research Group*
*Life Support Philosophy Research Group*
*Space Security Research Group*
*Non-Military Space Safety Initiative Team*

# Character File

HIBI
The Beginning of KeepGaiaDNA
When she was nine,
she opened a page about the life of a star.

LUMINE EST
パチンコ
エスパス
日拓
新宿駅東口
Shinjuku Sta. E.
新宿駅
Shinjuku Sta.
JR
東口
East Exit
カラオケ
747
カラオケの鉄人
HOTEL
GRACERY
IMAX
GRACERY
YUNIKA VISION
YUNIKA BLDG.
Welcome to SHINJUKU
新宿警察署
SHINJUKU POLICE STATION
18:67

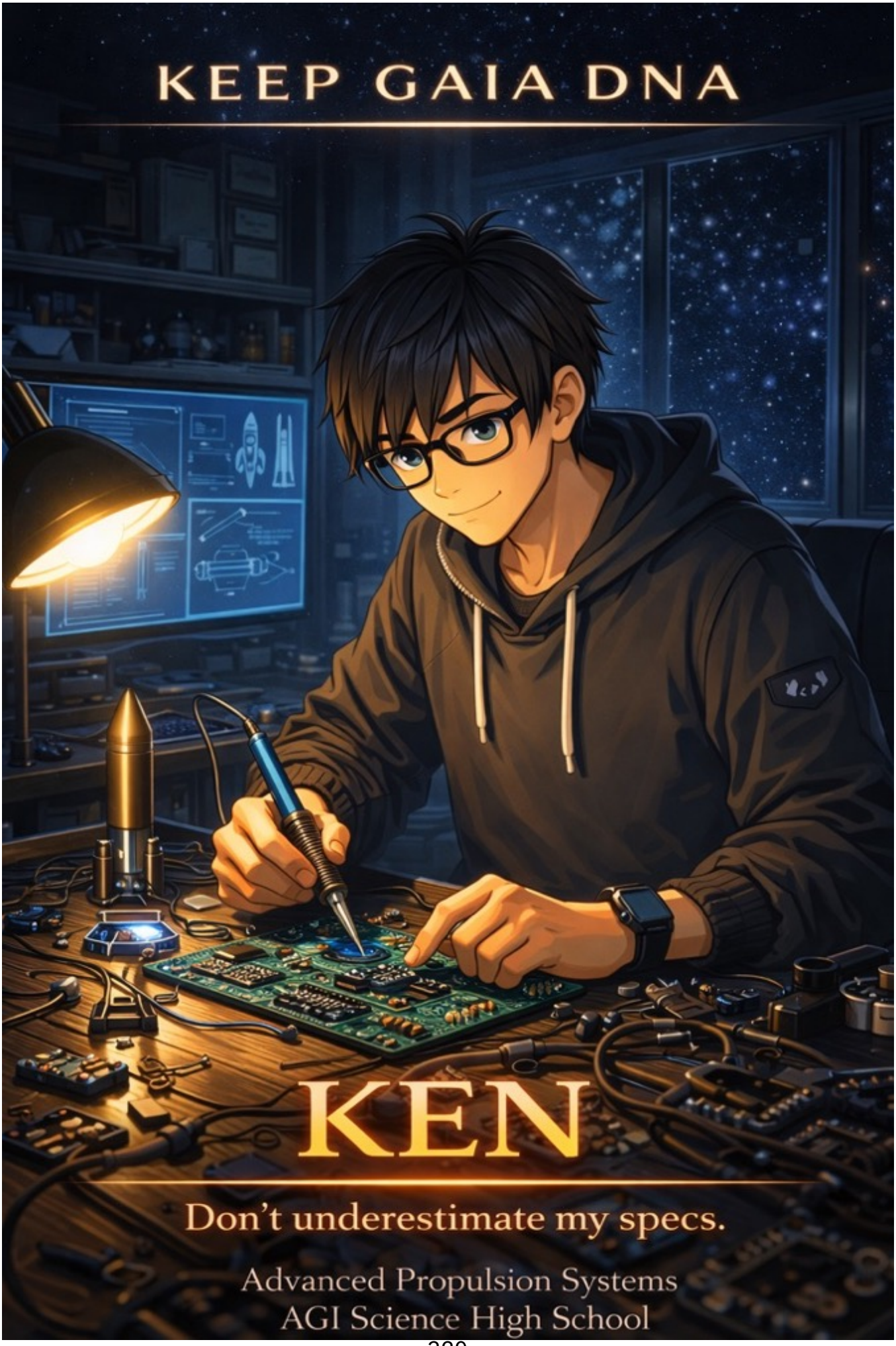
YOULA

QFRONT
超えていけ、
自分。
サロンパス
DHC
SHIBUYA
109
SHIBUYA
UNI
QLO
H&M
Café レストラン ガスト
DMM TV
STARBUCKS
TSUTAYA
YOULA
Quantum Navigator of Gaia
She walks beside humanity,
guiding the future of Earth-Life.

QUANTUM AI
QUANTUM AI
QUANTUM AI

QUANTUM NAVIGATION SYSTEM
EARTH-LIFE SYNC
Status : Linked
QT Coherence : 99.87%
TOKYO, JAPAN
35.6762° N, 139.6503° E
BIOSPHERE OVERVIEW
Earth / Asia / Japan
Population : 37,274,641
Area : 13,515 km²
Climate : Temperate
Life Index : High
QT COMMUNICATION
Uplink : GaiaCore
Signal Strength : Excellent

清水寺


KEEP GAIA DNA
KEN
Don’t underestimate my specs.
Advanced Propulsion Systems
AGI Science High School

パソコン

KEEP GAIA DNA
地球生命体を未来へつなぐ
MISSION OBJECTIVE
地球生命体の保存と継承
多様な生命の共存
自立循環型社会の構築
宇宙での新しい教育と文化
すべての子どもたちの未来を守る
QT DRIVE STATUS
ENERGY OUTPUT
100%
98.6%
STABILITY
DEEP SPACE NETWORK
SIGNAL QUALITY
99.2%
POPULATION SIMULATION
108,000,000,000
HUMANS
+ GAIA BIODIVERSITY
QUANTUM COMMUNICATION
LINK STABLE
Q-ENTANGLEMENT : 98.7%
ENERGY BALANCE
AI CONTROL SYSTEM
YOULA
STATUS : ONLINE
居住ゾーン
宇宙港
エネルギーリング
生態系保護区
水再生システム
ケンタウリ b 未来都市設計
CENTAURI b FUTURE CITY DESIGN
KEEP GAIA DNA
未来のインフラ構想メモ
・量子通信ネットワーク
・AI共生システム
・自立循環エネルギー
・教育プラットフォーム
・生命アーカイブ拡張
CENTAURI b SYSTEM PLAN
QUANTUM MECHANICS
SPACE-TIME ENGINEERING
AI & SOCIETY
AI & SOCIETY
GAIA BIODIVERSITY ARCHIVE

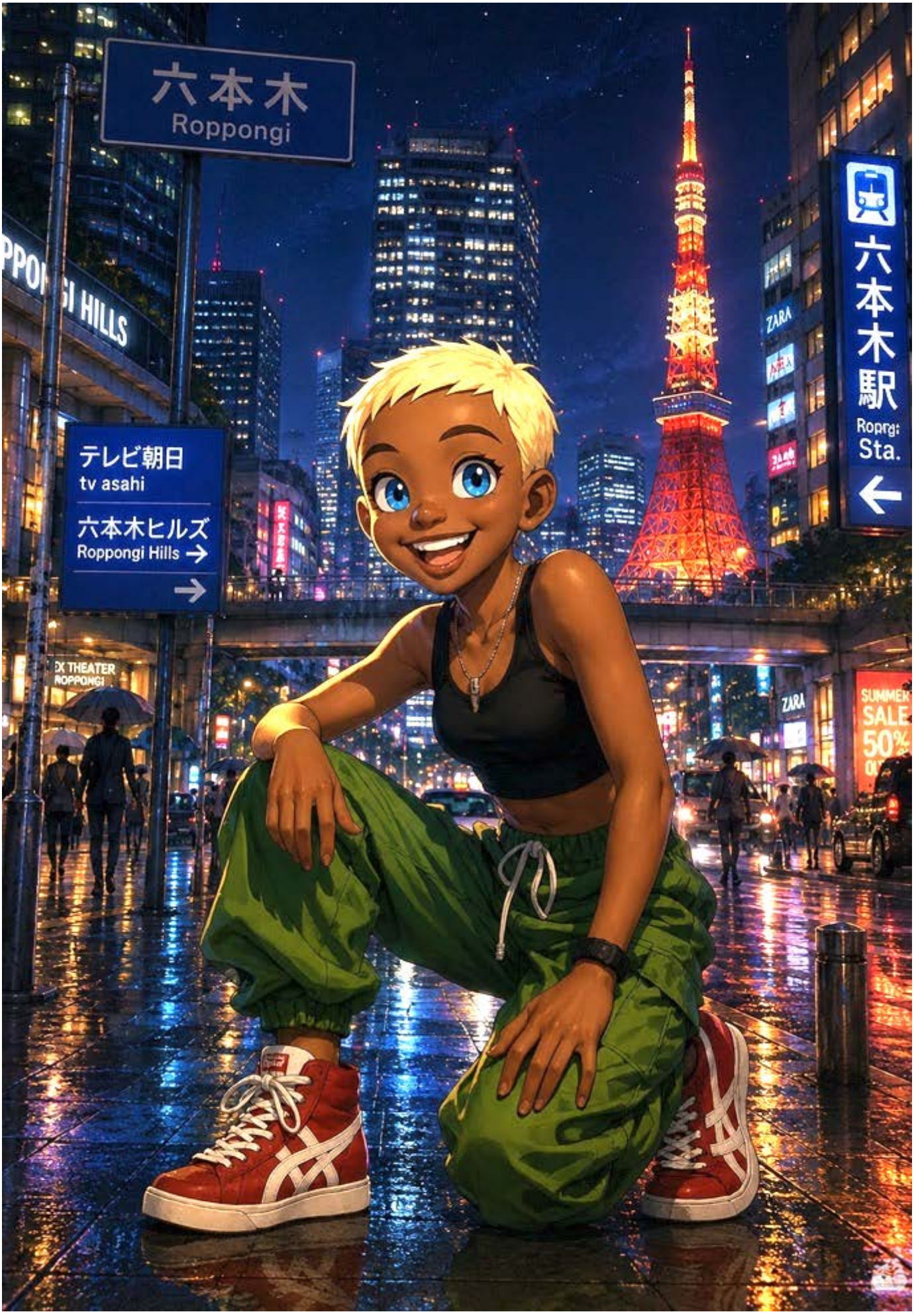
KEEP GAIA DNA
RINA
She follows her instinct alone.
AGI Science High School

代官山
DAIKANYAMA
青山
AOYAMA
表参道
OMOTESANDO
A.P.C.

KEEP GAIA DNA
KAZU
The will to win.
AGI Science High School

JINGUMAE ARENA
神宮前アリーナ
NEXT STAGE
LIVE 2024
神宮前六丁目
Jingumae 6-chome
神宮前
JINGUMAE
I ♡ 新宿
SHINJUKU
新宿駅
Shinjuku Sta.
南口 South Exit
UNIQLO
adidas

KEEP GAIA DNA
KIKI
Reach the unknown!
Exploration Uniit
AGI Science High School


六本木
Roppongi
テレビ朝日
tv asahi
六本木ヒルズ
Roppongi Hills
六本木駅
Sta.
ZARA
SUMMER
SALE
50%

HOUSE

EOLOGY RESEARCH
I Science High School
TE TECTONICS
Asteroid Sample Analysis
Composition
Silicate
Metal
Ice
AGI GEO-LAB
Seismic Activity
Mineral Structure
XRD Analysis
Basalt
Olivine
Pyroxene
Plagioclase
KEEP
GAIA DNA

KEEP GAIA DNA
RICO-SENSEI
Bioscience Educator

宇宙サプリメント
ビタミン
A
B
C
D
ミネラル
Ca
Fe
Mg
宇宙食

AGI TIMES 学園ゴシップ速報！

# リコ先生、休日に雷門で謎の紳士と目撃される！

仲見世通りで人形焼を半分こ…デートかそれとも教育視察？

**目撃情報**

- 場所：浅草・雷門
- 時間：午後２時ごろ
- 内容：仲見世通り散策
  人形焼を半分こ
  スカイツリー方面へ移動



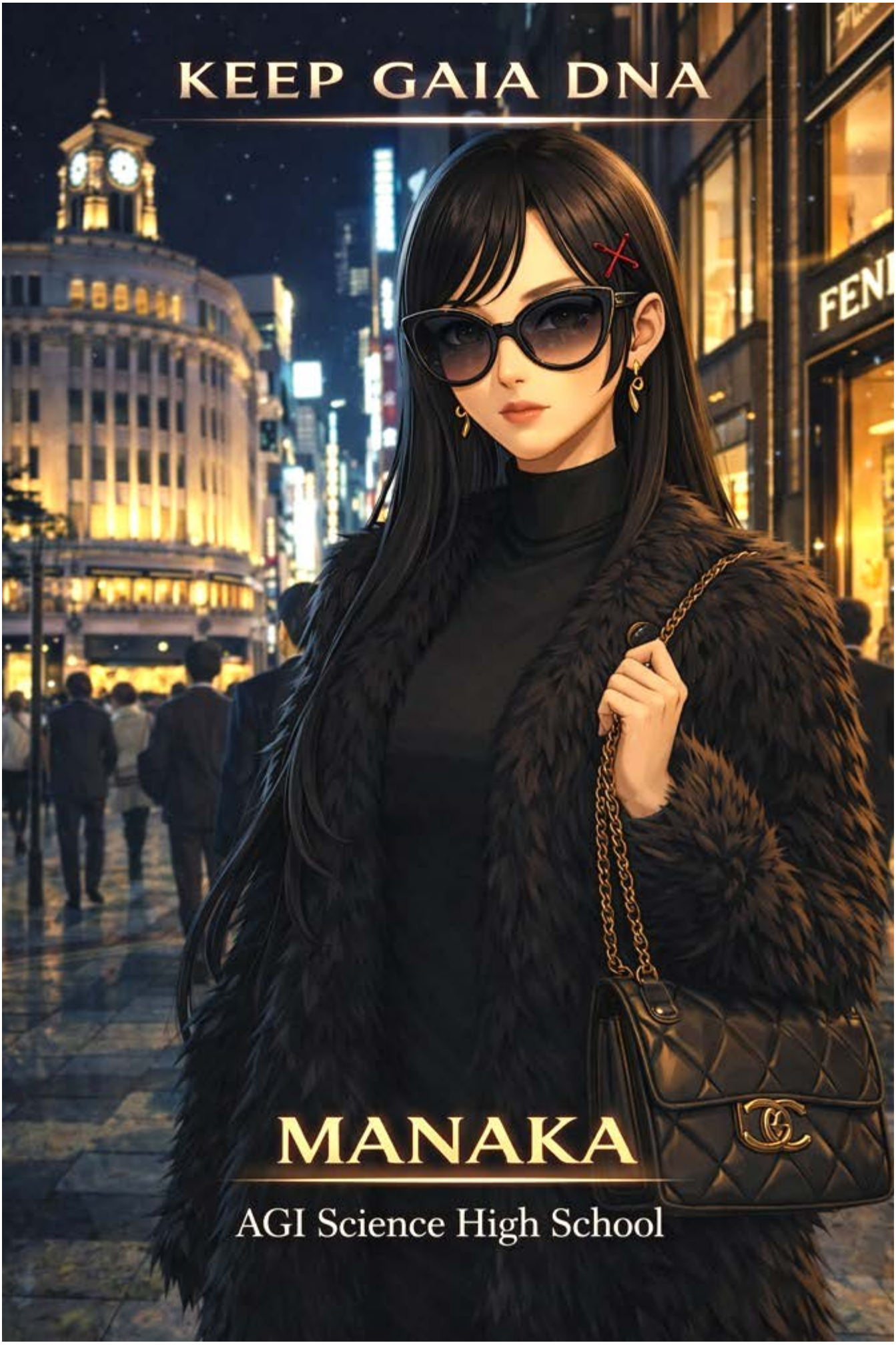
**謎の紳士の正体は？**

AGI Science High School
カリスマ校長
Dr. Gaia Orionis



学校創設者にして
量子文明研究の第一人者。
生徒たちからは
「伝説の校長」と呼ばれる。

## AGI生たちの反応


KEEP GAIA DNA
MANAKA
AGI Science High School

折紙スペース工作!

QT PROJECT
QUANTUM TELEPORTATION SYSTEM
KEEP GAIA DNA
QUANTUM TELEPORTATION SEQUENCE
STAGE
01 ANCHOR
STATUS : SYNCHRONIZING
STABILITY 98.7%
ENERGY FLUX
DESTINATION
L4 - ORBITAL HUB
QT-001
QT LAB
KEEP GAIA DNA
QUANTUM GRAVITY
SPACETIME ENGINEERING
WORMHOLE THEORY
ENTANGLEMENT DYNAMICS
QT DRIVE SYSTEMS
WORMHOLE
ENTANGLEMENT FIELD
SAFETY PROTOCOL
KEEP
GAIA DNA

KEEP GAIA DNA
AGI SCIENCE HIGH SCHOOL

## *Afterword*

*Thank you for watching 『Ruriiro no Wakusei』.*
*This work is a story about carrying the life of the Earth, where we live, into the future.*
*Under the concept of "KeepGaiaDNA," this story was created around the themes of harmony between science and technology and nature, diversity, and a spirit of respect.*
*Through the adventures of Hibi and Ken, YOULA's decision, and their determination to carve out a path toward the future, it would be our greatest joy if this story has inspired you to embrace new hopes and dreams.*
🦋 *For example, the "Butterfly Effect."*
*"If a butterfly flaps its wings in Brazil, it might cause a tornado in Texas."*
*Perhaps the choices made by Hibi and Ken were also the fluttering of a small butterfly.*
*Just as small choices can change the future, that power also exists within you.*
*Hidden within this story are the questions:*
*"Why are we here?"*
*"How will we carry the life of Earth into the future?"*
*The answer should lie within the heart of every person who has encountered this story.*

🌌 *The Core Technologies of the KeepGaiaDNA Project*
*At the heart of this story were two revolutionary technologies.*
🌱 *"DNA Generation Device"*

*A technology that preserves and reconstructs the genetic information of Earth's lifeforms, allowing life to take root on a new planet.*

🚀 *"QT-Equipped Rocket"*
*A next-generation space transportation system that applies quantum teleportation technology to break through the barrier of the speed of light.*
*By combining these two technologies, life from Earth can travel to the farthest reaches of the galaxy.*
*And our will, too, will be passed on into the future.*

*KeepGaiaDNA*
*KeepGaiaDNA is not simply a story about where humanity will migrate.*
*It is a science story that asks how Earth's lifeforms will carry their existence forward into the future.*
*Is "the life of a star" simply one way of thinking?*
*Or is "the life of a star" a way of being?*
*And is the KeepGaiaDNA Project the former—or the latter?*
*Those who have found the answer,*
*even if there is only one of you,*
*take one step forward.*

🚀 *"The KeepGaiaDNA Project has only just begun."*

*“As a symbol of entrusting the future to you, I bestow this emblem upon you.*
*This emblem is proof that the future has been entrusted to you.”*

*Reader’s Signature*
*I hereby record that, having encountered the philosophy of this work, I will continue to think about the future of life on Earth.*

*Signature: _____*

*Date: _____ / _____ / _____*